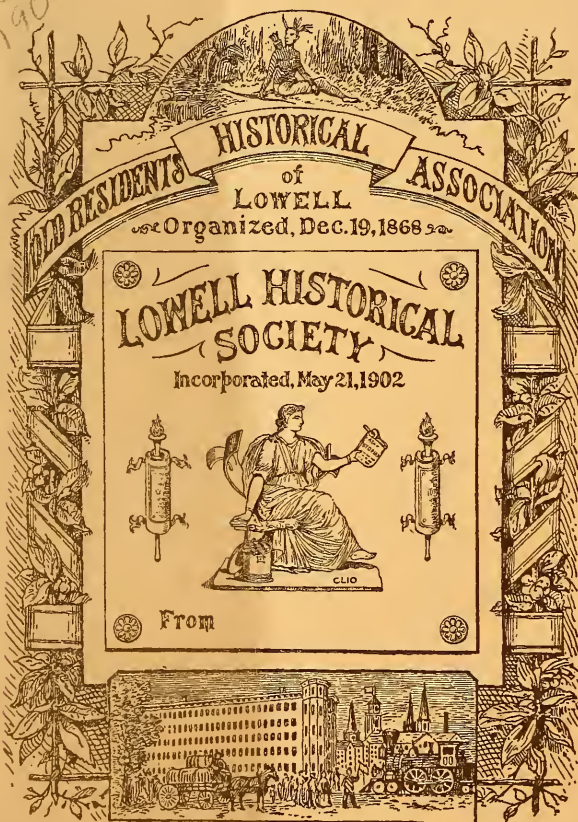




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Charles E. Howe, Mayor





CITY DOCUMENTS

OF THE

CITY OF LOWELL,

MASSACHUSETTS.

FOR THE

YEAR 1902 - 1903.



LOWELL, MASS.

COURIER-CITIZEN CO., PRINTERS.

1903.

# EXTRACT FROM THE ORDINANCES OF LOWELL.

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## CHAPTER VIII.—CITY DOCUMENTS.

SECTION 5. All City Documents (except the Rules and Regulations for the Government of the Police and Fire Departments) shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

SECTION 6. All City Documents shall be bound together in one volume, under the direction of the City Clerk, and three or more copies shall be placed in the City Library, and one copy in the library of the Middlesex Mechanics' Association, one copy shall be sent to each City of the Commonwealth, to the library of the Harvard College, the Public Library of Boston, the State Library, the Smithsonian Institute at Washington, and the Old Residents' Historical Association of Lowell.

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2. Municipal Register, containing Rules and Orders of the City Council, and a list of the Government and Officers of the City of Lowell, for 1903.
3. Seventy-Seventh Annual Report of the School Committee of Lowell, together with Thirty-Ninth Annual Report of the Superintendent of Schools, 1902.
4. Auditor's Sixty-Seventh Annual Report of the Receipts and Expenditures of the City of Lowell, together with the Treasurer's Account, and the Account of the Commissioners of Sinking Fund, for the financial year ending Dec. 31, 1902.
5. Thirtieth Annual Report of the Lowell Water Board, and Reports of the Superintendent of Water Works and the City Engineer to the Water Board, for 1902.
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9. Report of the Board of Health, 1902.
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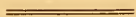
11. Report of the Chief Engineer of the Fire Department, 1902.
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13. Report of Board of Police, for the year ending June, 1903.
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ADDRESS

... OF ...

HON. CHARLES E. HOWE

MAYOR OF LOWELL.



January Fifth,  
Nineteen Hundred and Three.



LOWELL, MASS.  
UNION PRINTING COMPANY.  
1908.

ADDRESS  
OF  
HON. CHARLES E. HOWE.  
MAYOR,  
TO THE CITY COUNCIL,  
JANUARY 5, 1903.

---

GENTLEMEN OF THE CITY COUNCIL:

Having been elected by our fellow citizens to carry on the government of the city for the coming year, we have met here to organize, in accordance with custom and as directed by law. With uplifted hands we have called upon the Almighty to witness our oath to perform faithfully and impartially all the duties incumbent upon us. Honesty and ability, re-enforced by a solemn promise taken before the eyes of men to maintain that honesty and give without stint of that ability, are the safeguards of popular government, and are necessary to ensure its success. It devolves upon us, courageously and hopefully, to undertake the trust imposed upon us by our fellow men, keep-

ing constantly in our thoughts a high opinion of duty and moral obligation, in order that when we come to lay down the authority which we have this day attained, we may have preserved our honor and reputation, and secured that peace of mind which is the consolation for earnest and faithful work.

Last Spring, after a lapse of sixty-three years and for the second time in the history of our city, the citizens of Lowell were called upon to mourn the death in office of their chief executive. The greatest tribute that could have been paid to Mayor Dimon was the sincere grief evinced by the community at his untimely death. The city felt his loss. In Charles A. R. Dimon, to grace of body and mind, the decision of the soldier and the honor of the true man, were added the kindness and courtliness of the gentleman, the tenderness and charity of the samaritan and the sympathy and generosity of the faithful friend. It was my lot to know him long and well. He was my comrade in the Great Army of the Union. His was a brave and noble soul! Peace to his ashes!

It is not my purpose at the present time to review either with praise or criticism the different departments of the City Government. It is hardly to be expected that nowadays a busy private citizen, however great his interest in public affairs,

can keep so well posted in the workings of all the branches of a great municipality as to know separately the needs of each and all, and to be familiar with and able to point out off-hand their defects and advantages. It is impossible, as stated by one of my predecessors in his inaugural address, for such a citizen, when called to the office of chief magistrate, to acquaint himself thoroughly with the workings of the separate departments in the short time between his election and his inauguration. The reports and opinions of the different heads of departments have to be relied upon.

As the city grows and the city's business increases, the responsibility, influence and power of the heads of the principal departments continue to grow. "Bigger" men are needed now for the departments than were required in the good old days when it was said "No matter who is elected to office, the city's business will run itself." The city's business will not run itself. If left to itself, it will run itself into the ground and the city still further into debt. It is clear that increased care must be taken that those elected or appointed to office by the Executive or City Council, must be men of efficiency and character and of known fidelity to the public interest.

There are certain principal departments whose continuance in their present form is indispensable, whose conduct incurs the least fault-finding and

whose appropriations almost necessarily fix themselves. These appropriations are voted willingly and are least suited for the deep cuts of the pruning knife of economy, should it become necessary to wield that weapon.

The Public Schools and the City Library continue in the grand work of mental and moral instruction of youth and the adornment of the minds of the adult.

The Fire Department is efficient.

The Police Force guards well our bodily safety and property, and is active and vigilant in the enforcement of the numerous regulations necessary to the comfort of a populous city.

The health of the city is good, notwithstanding two dangerous contagious diseases, small pox and diphtheria, threatened to become epidemic.

Our Water Supply is wholesome and plentiful.

I believe our taxes are distributed with justice.

Our Public Buildings are clean and in repair.

Our Sewerage System carries away the city's waste effectively.

Our Streets will compare favorably with the streets of other cities of similar size and like conditions of soil, although their condition in certain places and at certain times calls forth the usual complaints.

The City is well lighted.

The Poor are well cared for.



Our Commercial and Industrial Interests are active. Our people generally are busy and prosperous.

Should occasion arise, or experience in the executive chair dictate, I shall make recommendations to the City Council from time to time.

#### PUBLIC PARKS.

By the adoption of the first fourteen sections of Chapter twenty-eight of the Revised Laws at the city election, the citizens have declared in favor of a radical change in the management and development of the public park system. When the commissioners to be appointed under the provisions of the chapter assume authority on the coming first of May, they will find themselves invested with complete power, as complete and independent of the City Council as the power of the Board of Police over the Police Department. "They may lay out and improve parks, make rules for their use and government, appoint all necessary engineers, surveyors, clerks and other officers, including a police force to act in such parks, define their powers and duties and fix their compensation, and do all acts needful for the proper execution of their powers and duties." It is to be hoped that the city will be the gainer by the change; that the good effect of consistent and carefully planned management will soon make

itself manifest. The City Council still retains the power to determine how much money shall be expended on parks. I am of the opinion that for the first two or three years the Park Commission should devote its energies entirely to the improvement of such parks as the City now possesses, and that the amount expended should not exceed the present average yearly expenditure. I do not believe the present financial conditions warrant the acquirement of more land for park purposes. The repeal of the ordinance relating to the election of a superintendent of parks and commons should accompany the elimination of the joint standing committee on commons.

#### HUNTINGTON HALL.

The practice of granting the free use of Huntington Hall to societies other than those of purely charitable or educational purposes has grown rapidly from an abuse to a flagrant misuse of public property and should be stopped at once. It is neither legal, proper, nor just to the general tax-paying public. The city not only gives the use of the Hall free, but it stands also the expense of cleaning after use, lighting and heating when necessary. Until recently long established custom had definitely determined the societies and organizations fairly entitled to the free use of

the Hall. The free list should be purged and cut down to the lowest possible limit, and that limit strictly adhered to.

#### BUILDING ORDINANCES.

I urge the City Council to take steps at once to meet the crying need of suitable legislation in relation to the construction, maintenance and inspection of buildings. Whatever regulations are at present in force appear to be impotent. The city is behind the times in this most necessary feature of public safety. Buildings are constantly being erected, the strength and safety of which are matters determined solely by the judgment and conscience of their builders and architects. The recent collapse of a building in process of construction on Andover Street, happily unaccompanied by loss of life, is an emphatic warning of the need of the legislation recommended.

I am informed that commendable efforts have been made during the past three years to bring about this reform; but that the ordinances proposed seem to have found their disposition in the pigeon hole of the committee room.

#### SMOOTH PAVING.

The ideal pavement has not yet been discovered or invented. Of all the pavements which have

been subjected to practical test, asphalt, or as commonly called "smooth paving," has given the most satisfactory results, and its use is being largely increased in many of the cities of the country. In our own city the use of smooth paving has passed the experimental stage and its gradual extension appears to meet with general popular approval. Therefore I favor the laying of a moderate amount the coming year. As the work is of the nature of a permanent improvement, a loan to meet the expense will be proper. The result of our trial of what is called "tar macadam" will be awaited with interest. If any granite block paving is laid this year, or old paving relaid, I recommend that a trial be made of laying the paving on a substantial foundation.

#### PUBLIC BURIAL GROUNDS.

The attention of the City Council is called to the urgent need of land for cemetery purposes. The matter cannot be longer neglected. Action must be taken immediately. The last burial lot in the Edson Cemetery has been sold. It is unfortunate that the negotiations that were carried on during the past year for the purchase of additional land proved fruitless.

## THE LICENSE QUESTION.

Again, after a period of three years of license, the voters have decided that for the year following the first day of May next no licenses shall be granted for the sale of intoxicating liquors in the city. Following this decision comes the customary and familiar inquiry, "Will the law be enforced?" Gentlemen, we did not make the law, but we are bound by it, as we are bound to administer all laws as we find them, fearlessly and faithfully. The people having voiced their sentiments, have the right to expect that branch of the City Government, the Police Commission, whose charge it is, to execute the law regulating the sale of intoxicating liquors with courage and judgment, without shrinking from the responsibilities of what is likely to prove a heavy burden. The members of the Police Commission are men of integrity, ability and experience. I pledge them my sympathy and support.

## THE TEXTILE SCHOOL.

The new Lowell Textile School building has nearly reached completion and in a few days the school will be settled in its permanent home. Although the Textile School is an independent institution, the city has contributed money towards its establishment and gives it yearly a certain sum, last year \$8,000, thus in a degree lending

its financial aid as well as its moral support. In return the city receives the benefit of free evening classes for its residents, and students residing in the State are taken at less than the regular rate of tuition. The Mayor, the Chairman of the Board of Aldermen, the President of the Common Council and the Superintendent of Schools are members *ex-officiis* of the Board of Trustees. The work of the school is to be commended, and its Trustees and Faculty congratulated on the success and growth of the institution. The new structure, strikingly situated, makes a beautiful and imposing accession to Lowell's principal buildings. The fame of the school adds to the fame and reputation of the city. May the grand practical work of developing the intellect in combination with the skill and cunning of the hand manifest itself in the increased prosperity of our manufactures and the advancement of the condition of our workmen, thus illustrating the truth of the city's motto, "Art is the handmaid of human good."

#### THE FUEL QUESTION.

The prevailing conditions in the matter of fuel supply, especially coal, continue to be most peculiar and embarrassing. Scarcity and high price, one or both, bear with hardship upon all. The want of one of the prime necessities, not to



say comforts of life, never has been so severely felt. It cannot be denied that there exists a general and bitter feeling, amounting in many cases to conviction, that the public is not being fairly dealt with by those whose business it is to supply coal; that information which, in times of stress like the present, properly belongs to those who suffer as well as to those who profit is being withheld; that the truth of the case is not being given to the public. This feeling, whether justified or not, is to be regretted, as bearing still harder upon a patience which already has been severely put to test. I hope for a quick betterment of this state of affairs. To ascertain the true conditions and exercise all the influence and authority of the city to mend a situation which has brought so much suffering to our people, will be one of the first efforts of my official career.

#### STREET LIGHTS.

I recommend the discontinuance of the custom of extinguishing the gas and gasolene lights in the streets at one o'clock in the morning, and the further custom of relying upon the moon to take the place of such lights four or five nights in each month. This custom seems to me to be almost as absurdly out of date in a modern city as the old custom of carrying lanterns. I believe the increased comfort and protection to the public at night will justify the increased expense.

## PUBLIC FRANCHISES.

Before any franchises are granted to public service corporations, the laws relating to such proceedings should be carefully understood and the conditions definitely and plainly determined upon and made such as to be most advantageous to the city. The careless disposal of great public interests should be regarded as criminal.

## THE CITY'S FINANCES.

Economical management of the finances is the greatest care of municipal government. The purpose is to manage so that the amount raised by taxation shall bear as lightly as possible upon the tax-payers, and so that this amount added to other city revenue shall be apportioned properly among the different departments and wisely expended by them. In our own case the need of the reduction year by year of the city's debt, if possible, is emphatically apparent.

Ordinary City Debt, Jan. 1, 1902,	\$2,518,890.29	
Borrowed during the year 1902,	222,885.00	
Total	\$2,741,775.29	
Paid during the year 1902,	345,500.00	
Total Ordinary City Debt Dec. 31, 1902,		\$2,396,275.29
Water Debt, Jan. 1, 1902,	\$1,237,100.00	
Paid during the year 1902,	31,600.00	
Total Water Debt, Dec. 31, 1902,		\$1,205,500.00
Total City Debt, Dec. 31, 1902,		<u><u>\$3,601,775.29</u></u>

MAYOR'S ADDRESS.

Ordinary City Debt, Dec. 31, 1902,	\$2,396,275.29
Sinking Funds for payment of same	<u>342,237.40</u>
Net Ordinary City Debt, Dec. 31, 1902,	\$2,054,037.89
Water Debt, Dec. 31, 1902,	\$1,205,500.00
Sinking Funds for payment of same,	<u>343,201.43</u>
Net Water Debt, Dec. 31, 1902,	862,298.57
Total Net Debt, Dec. 31, 1902,	<u>\$2,916,336.46</u>
Total Net Debt, Dec. 31, 1901,	\$3,086,686.84
Total Net Debt, Dec. 31, 1902,	<u>2,916,336.46</u>
Decrease in Net City Debt during 1902,	<u>\$ 170,350.38</u>
Decrease in Net Ordinary Debt,	\$ 122,615.00
Decrease in Water Debt,	\$ 47,735.00

### LIMIT OF INDEBTEDNESS.

Total City Debt, Dec. 31, 1902,	\$3,601,775.29
Deduct Water Loans,	\$1,205,500.00
Deduct Exemptions by Legislature,	800,000.00
Deduct Sinking Funds which apply to Limit,	143,272.42
	<u>\$2,148,772.42</u>
City Debt as it relates to limit of indebtedness	<u>\$1,453,002.87</u>
Limit of Municipal Debt for 1903, 2½ per cent. on \$71,418,016.00 (average valuation for last three years,)	\$1,785,450.40
City Debt which relates to limit, Dec. 31, 1902,	1,453,002.87
Distance from limit, Dec. 31, 1902,	<u>\$ 332,447.53</u>
Distance from limit Dec. 31, 1901,	\$ 237,456.18
Increase of distance from limit	\$ 94,991.35

It is needless to descant upon the size and burden of our city debt, and the cause of its being. The condition is there and we must meet it. I would like to have you keep in mind, however, the fact that nearly one-third of the city's income has to be paid out in interest and installments on past debts and to sinking funds; that a gradual reduction in the debt can be accomplished by care and economy each year; that such a policy is the best possible course for the city; and that the total extinguishment of the city debt is not a hopeless dream. Bear in mind that if temporary relief from high taxation is sought in any year by borrowing more than is paid, the gaunt spectre of a higher tax-rate is sure to return in due time. Remember these facts if you are urged this year to vote or borrow money for any but the most necessary purposes.

The city debt has been decreased during the past year \$170,350.38. The distance from the debt limit has increased \$94,991.35. The city's borrowing capacity is greater by the last amount. This is a very satisfactory showing, although it required a tax-rate which is called high (\$19.60) to bring about such a result. However the result was the fruit of a careful, honest policy. Can such a showing be made this year? Let us see.

We are confronted at the very start with a shrinkage in the customary revenue of the city

of about \$130,000, the usual net receipts from liquor licenses. The question then resolves itself into this: Figuring the probable remaining revenue from taxation and all other sources the same as in 1902, (as is fair and likely; there cannot be much difference either way) we must either cut down our expenses \$130,000, or borrow that amount, or, by adding it to the tax levy, send the tax rate up. Here then is our financial problem—to save, to borrow, or to raise the taxes. It seems hardly probable that the expenses of the city can be scaled \$130,000, but we can make the attempt. My counsel is to practice economy, but not without judgment. It is a false economy that would cripple or impair the usefulness of any of our departments. Our people have been accustomed to having the best. A modern and progressive city cannot afford to lag behind the times. Therefore while we must be saving, we need not be mean. If we accept the conditions cheerfully, work out our problems bravely in the paths that appear to us to be practical, we shall be fairly judged. Let us exert ourselves then to get along, if possible, with the usual income; and if it becomes necessary to borrow, borrow the least possible and only for the strictest needs. Do the borrowing fairly, honestly and openly, without resort to subterfuge. Explain the necessity of it to the people. The people will deal

fairly and honestly with those of their public servants who deal fairly and honestly with them. The people are intelligent. They do not expect impossibilities from their officials, but they are quick to rebuke and discredit those officials who seek to deceive them about their welfare and the condition of their government.

#### CONCLUSION.

Gentlemen: In beginning today our task as managers and guardians of the public interest we shall be sensible if we promise little and aim to accomplish much. If we promise much and by reason of unforeseen events are unable to keep our promises, we shall be blamed by the thoughtless and captious and receive only the pity of the well-disposed. Let us have confidence and faith in ourselves, in our people and in our government, and, keeping the faith, put in action our best endeavor, looking hopefully forward to a happy result of our labors.

Let us make Lowell a city so well governed that capital and new industries will be attracted to our borders, and will enable us, by the consequent increase in population and wealth, to regain the proud position of the second city of the Commonwealth.







MUNICIPAL REGISTER

CONTAINING

RULES AND ORDERS

OF THE

CITY COUNCIL,

AND A LIST OF THE

GOVERNMENT AND OFFICERS OF THE CITY OF LOWELL

1903.



LOWELL, MASS.:  
THE LIBBY PRINTING COMPANY  
1903.



## JOINT RULES AND ORDERS OF THE CITY COUNCIL

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1. In the month of January, and not later than the second regular meeting after organization of each branch of the City Council, joint standing committees shall be appointed as follows :

A COMMITTEE ON CLAIMS.

A COMMITTEE ON EDUCATION.

A COMMITTEE ON FIRE DEPARTMENT.

A COMMITTEE ON LANDS AND BUILDINGS.

A COMMITTEE ON MILITARY AFFAIRS.

A COMMITTEE ON ORDINANCES AND LEGISLATION.

A COMMITTEE ON PRINTING.

A COMMITTEE ON STREETS.

A COMMITTEE ON COMMONS.

A COMMITTEE ON INDUSTRIES.

Each committee shall consist of two Aldermen and three members of the Common Council, except the Committee on Streets, which shall consist of two Aldermen and five members of the Common Council.

2. Each board shall, in such manner as it may determine, select its own members for any joint committee.

3. In all joint standing committees, except that on Finance, the member first named in the Board of Aldermen shall be chairman ; on the Committee on Finance, the member first named in the Common Council shall be chairman ; and in all joint special committees, the member first named in the board where the business originates shall be chairman, and shall call the committee together.

4. Reports of committees shall be made to the board first meeting after such reports are prepared and signed.

5. No committee shall act by separate consultation, and no report shall be received unless agreed to in committee actually assembled.

6. It shall be the duty of every joint committee (the Committee on Streets excepted) to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

7. The by-laws of the city shall be termed ordinances ; the enacting clause of which shall be—Be it ordained by the City Council of the City of Lowell, as follows : In all votes by which either or both branches of the City Council express anything by command, the form of expression shall be, Ordered, and whenever either or both branches express opinions, principles, facts or purposes, the form shall be, Resolved.

8. An ordinance may originate in either board, and shall be considered in three several stages. It shall first be read for information, and the question shall then be on ordering it to the Joint Standing Committee on Ordinances and

Legislation, and then sent to the other branch for concurrence. When reported back, the recommendations of the committee shall first be acted on. If it shall then be ordered to a second reading, it shall next be examined by a standing committee of that board, who shall see that it is drawn in proper form. When returned by such committee, the question shall be on ordering it to be enrolled. If so ordered, it shall then be sent to the other board, where the same order of proceedings shall be observed. When it has been ordered by both branches to be enrolled, it shall be enrolled by the Clerk of the Common Council, and shall be by him submitted to the proper committee of that board to ascertain if it has been correctly enrolled. If so reported, the question shall be on passing it to be ordained. If it shall so pass, it shall be signed by the President of the Common Council, and be sent to the Board of Aldermen, where it shall take a like course. If passed to be ordained in that board, it shall be signed by the Chairman of the Board of Aldermen and sent to the Mayor for his approval.

9. An ordinance may be rejected in any stage, but may not pass through all its stages in the same day. Each board shall transmit to the other all papers on which any ordinance, joint resolution, or order shall be founded; and all papers on their passage between the two boards, shall be under the signature of their respective clerks, except ordinances and joint resolutions in their last stage, which shall be signed by the presiding officers. If papers come before either board which have been duly acted upon in the other board, the presiding officer shall so state without reading the endorsements of the clerk, unless the latter are called for.



10. All enrolled ordinances shall be written in a fair and legible hand, or typewritten, provided a permanent record ribbon is used, without interlineations or erasures, and no enrolled ordinance or resolution shall be amended.

11. Every joint resolution shall be read in the board in which it is introduced, and the question shall be upon ordering it to a second reading. If so ordered, the question shall then be upon its passage. If passed, it shall be sent to the other board, where the order of proceeding shall be the same. When passed by both boards, the resolution shall be presented to the Mayor for his approval, and when the same shall be in force, shall be enrolled by the clerk of the Common Council, and when found correctly enrolled as provided in the case of an ordinance, it shall be signed by the President of the Common Council and the Chairman of the Board of Aldermen, and be presented to the Mayor for his signature if he approved the original.

12. Joint orders shall require but one reading, and when adopted, shall be sent to the Mayor for his approval, except when they relate to a question of a convention of the two branches, or the election of any officer.

13. When either board does not concur with the other in any ordinance or resolution sent from the other, notice of such non-concurrence shall be given by a written message.

14. In any case of non-concurrence, each board may appoint a Committee of Conference. Such committee shall consist, in each case, of three members who support the vote of their own board. These two committees may meet jointly or separately, and a majority of each shall decide its action.

15. All reports and other papers submitted to the City Council shall be written in a fair hand, or typewritten, provided a permanent record ribbon is used, without endorsement, except in case of the introduction of an order or resolution. In such a case the member introducing an order or resolution shall subscribe his name at the bottom of the back of the same. All other endorsements upon the back of papers shall be made by the clerk; and the clerks of the boards respectively, shall, on seasonable notice, make copies of any papers to be reported by committees, at the request of the respective chairmen thereof.

16. No business shall be transacted by the City Council in convention, except such as shall have been previously agreed on, unless by unanimous consent.

17. In balloting in joint convention, blanks shall be reported but not counted as votes.

18. When both boards are in session at the same time, neither shall adjourn without giving notice to the other of its intention.

19. All petitions, reports, or other papers of whatever description, relating to business requiring the concurrent action of both boards of the City Council, shall be submitted by committees to the clerk of each board at least twenty-four hours before the time of meeting of either board, and the clerk of each board shall prepare a brief synopsis of all matters to be acted upon, and place the same on the desk of each member of the City Council prior to the hour of opening the meeting. No reports or orders not previously furnished as

herein described, shall be considered in either branch unless two-thirds of the members present consent thereto.

20. These rules may be suspended for a specific purpose, or amended, whenever twenty-four members of a joint convention of the two branches shall so direct, or whenever a joint order to that effect shall be passed by the votes of six members of the Board of Aldermen and eighteen members of the Common Council.

21. No resolution for the extension and laying out of any street or public highway shall be passed to a second reading by either branch of the City Council until the city civil engineer shall certify to the council that said street or highway is fully completed, and graded to the grades named in the resolution, without expense to the city.

22. A ye and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or the appropriation of the public moneys, or involving any debt or liability, and such vote shall be entered upon the records of each branch of the City Council.

23. Less than a quorum of each branch of the City Council may adjourn to a fixed day earlier than the regular meeting, and shall have power to compel the attendance of all absent members in such manner as the City Council may by ordinance provide.

24. In the absence of rules governing both boards of the City Council, Cushing's Manual shall decide the point.

## RULES AND ORDERS OF THE BOARD OF ALDERMEN

---

1. At the appointed time the presiding officer shall take the chair, and on the appearance of a quorum, proceed to business.

2. The order of business shall be as follows :

First.—At all regular meetings the journal of the last regular meeting and all intervening meetings of the board shall be approved without reading, unless the reading be called for by some member of the board.

Second.—Petitions and similar papers.

Third.—Appointments, elections, etc.

Fourth.—New business, which, unless otherwise ordered, will take its place at the foot of Orders of the Day.

Fifth.—Orders of the Day, consisting of unfinished business of the last previous meeting, papers from the Common Council and such matters as have been introduced as new business. By a vote of six members, any matters in the Orders of the Day may at any time be taken up for immediate consideration.

3. The presiding officer shall decide all points of order, subject to appeal. He may read while sitting, but must rise to put a question. He shall allow debate on a question until the vote has been declared, but not on the verification of a vote ; and on demand of two members shall take every vote by yeas and nays.

4. When a question is under debate, the presiding officer shall receive no motion but to adjourn, to take up a special assignment, to lay on the table, to postpone to a day certain, to commit, to amend, or to postpone indefinitely. These several motions shall have precedence in the foregoing order, and debate upon any of them shall be confined to the actual motion, and shall not go into the merits of the main question, except on amendment.

5. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration, to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration, to be acted upon at the next meeting, which latter motion shall have priority, if made before the motion first mentioned shall have been decided. Provided, however, that no motion of reconsideration made by a member voting with the minority shall be received on any subsidiary or incidental question. No motion shall be twice reconsidered.

6. No member shall be interrupted while speaking, but by a call to order, or for the correction of a mistake ; nor shall there be any conversation among the members while a paper is being read, or a question stated from the chair.

7. When any member is about to speak in debate, he shall rise in his place and respectfully address the presiding officer, shall confine himself to the question under debate, and avoid personality.

8. In the month of January the following committees shall be appointed :

A COMMITTEE ON BILLS IN SECOND READING.

A COMMITTEE ON ELECTRIC WIRES.

A COMMITTEE ON ENROLLMENT.

A COMMITTEE ON LICENSES.

A COMMITTEE ON LIGHTING STREETS.

A COMMITTEE ON SEWERS.

A COMMITTEE ON WEIGHTS AND MEASURES.

A COMMITTEE ON STATE AID.

The committees on Licenses, on Sewers, and on Electric Wires shall consist of three members each ; the other committees shall be composed of two each.

9. Every member present shall be held obliged to vote on all questions, and not to leave without permission, if his presence is necessary to make a quorum.

10. The clerk shall prepare, for the use of the board, a copy of the Orders of the Day, to which shall be added a list of matters laid on the table or postponed to a day certain.

11. When a reference is proposed to more than one committee the question shall first be upon a standing committee



of the board, then a special committee, then a joint standing committee, and last a joint special committee.

12. These rules may be amended or suspended whenever two-thirds of the members present may so vote; but a motion to amend shall not be made and finally acted upon at the same meeting.

13. All nominations shall lie on the table three days at least before action thereon by the board.

14. All papers, of whatever description, which may require action by the board, shall be presented to the City Clerk not later than the hour of noon on the day of each regular meeting. Petitions, reports and other papers, presented after that hour on such day, will not be considered until the next meeting.



## RULES AND ORDERS OF THE COMMON COUNCIL

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1. Upon the arrival of the hour fixed upon for the meeting, the President shall call for order, and within ten minutes (or sooner, if a quorum be present,) cause the clerk to call the roll and report to him the number present, and the number absent, which information he shall, in turn, announce to the body. In the absence of the President, the eldest senior member shall call to order and preside until a President pro tempore is chosen.

2. The President shall preserve order and decorum. He may speak to points of order in preference to other members, rising for that purpose. He shall decide questions of order, subject to appeal, but shall entertain no discussion on the merits of his ruling.

3. While addressing the body the President shall stand, but he may read or put questions while sitting.

4. The President shall declare all votes, and, if a vote be doubted, he shall, without permitting further debate, require the members voting in the affirmative to rise and remain standing until they are counted by the clerk; then he shall require the members voting in the negative to rise and remain standing until they are counted by the clerk, and he shall thereupon, on information from said clerk, declare the result.

5. The President may call any member to the chair, but such substitution shall not extend beyond an adjournment, and when out of the chair he may express his opinion on any subject under debate, but he must not resume the chair while the same question is pending.

6. All questions shall be propounded by the President in the order in which they are moved, unless the subsequent motion be previous in its nature.

7. After a motion is stated by the President, it shall be disposed of by a vote of the body, unless the mover (no objection being offered) withdraws it before a decision or amendment.

8. A motion to adjourn shall always be in order, unless the body is engaged in voting.

9. The previous question shall be in this form : " Shall the main question be now put ? " It shall only be admitted when demanded by a majority of members present, and until it is decided, shall preclude all amendment and debate of the main question.

10. The yeas and nays shall be taken on any question upon demand of one-third of the members present.

11. When two or more members rise at the same time, the President shall name the member who shall speak first.

12. Every motion shall be reduced to writing, if the President or any member requires it.

13. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous question, to postpone to a certain day, to commit, to amend, or to postpone indefinitely; which several motions shall have precedence in the order in which they are arranged; and no motion to postpone or commit shall be allowed twice in the same day, in the same stage of the ordinance or proposition, nor shall a vote on any subsidiary or incidental motion be reconsidered, except a motion to that effect be made and be acted upon at the same meeting at which the vote was decided.

14. When any member is about to speak in debate, or deliver any matter to the body, he shall rise and respectfully address the presiding officer, confine himself to the question, and avoid personality.

15. During debate no member shall be mentioned by name, but he may be described by such other designation as may be intelligible and respectful.

16. No member, while speaking, shall be interrupted by another, but by a call to order or to correct a mistake. If any member, in speaking or otherwise, transgresses the rules of the body, the President shall, or any member may, call him to order; in which case the member so called to order shall immediately be seated until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed; if otherwise, he shall not proceed without the leave of the body.

17. No member shall speak more than twice to the same question without obtaining leave of the body.

18. Whilst the president is speaking, no member shall pass between him and the body, and while a member is speaking no person shall pass between him and the President; nor shall any person rise in front of a speaking member except to raise a point of order.

19. When a question has been decided, any member voting with the majority may move a reconsideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting; which latter motion shall have priority, if made before the motion first mentioned shall have been decided. No vote or question shall be twice reconsidered.

20. Every member present when a question is put shall, unless, for specific reasons, excused by a majority of the members, give his vote. But in the election of any city officer, he may decline to vote, as provided in Section 7, Chapter 26 of the Revised Laws. And no member shall leave without permission, if his presence is necessary to make a quorum.

21. No motion or proposition, on a subject different from that under consideration, shall be admitted under color of an amendment.

22. All reports may be committed or recommitted at the pleasure of the body.

23. The division of a question may be called for when the sense will admit of it.

24. A majority vote shall be necessary to sustain objection to the reading of a paper.

25. No standing order shall be suspended, except by a two-thirds vote of the members present; nor shall any rule or order governing the body be repealed or amended without one day's notice, nor unless fourteen members concur therein.

26. The order of business shall be as follows:

1—Roll call.

2—Reading of records.

3—Papers from the Board of Aldermen.

4—Communications and reports from city officials.

5—Presentation of petitions, remonstrances and memorials.

6—Reports of committees.

7—Unfinished business of preceding meetings.

8—Motions, orders or resolutions.

The above order of business shall not be departed from, except by a vote of a majority of the members present, but the body may appoint a committee of two to approve the records of the clerk during the year, and if such a committee is appointed, the reading of the records shall be omitted, unless called for by one-third of the members present.

27. The seats of the Common Council shall be numbered and determined by lot, and no member shall change his seat but by permission of the President.

28. All committees, except such as the body determines to select by ballot, or such as may be required by statute to be voted for, shall be appointed by the President, and the political minority shall be represented by at least one member.

29. No member shall be obliged to serve on more than two committees at the same time, or be chairman of more than one.

30. All memorials and other papers addressed to the body shall be presented by the President, or by a member in his place, who shall explain the subject thereof; and they shall be taken up in the order in which they were presented, unless the body shall otherwise direct.

31. Standing committees shall be appointed on the following subjects :

On Second Reading of Bills and Ordinances.

On Enrollment.

On Elections and Returns.

32. No committee shall sit during a session of the body, without special leave, except the Committee on the Second Reading of Bills and Ordinances and the Committee on Enrollment.

33. These rules shall be observed in the Committee of the Whole, so far as they are applicable, except Rule 17.



34. When a committee is nominated by the chair, the person first named shall be chairman. In the election of committees, except on finance, when a chairman is not specially chosen, the person having the highest number of votes shall act as chairman ; and in case of an equality in votes between two or more members of a committee, the members thereof shall choose a chairman.

35. All committees shall consist of three members, unless otherwise specially provided for ; and no report shall be received from any committee unless agreed to in committee actually assembled ; and reports shall be in writing, unless otherwise ordered.

36. It shall be the duty of every committee to whom any subject may be specially referred, to report thereon within five weeks, unless further time be previously asked for and granted.

37. Members of the body may attend any meeting of any of its committees, but shall not vote thereat.

38. All ordinances and resolutions shall have two several readings before they shall be finally passed. See Joint Rules 7 and 8.

39. All ordinances after being read a second time shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported upon by said committee, shall be again read, after which the question shall be on passing the same to be enrolled.



40. No ordinance or resolution imposing penalties, or authorizing the expenditure of money, shall have more than one reading the same day.

41. Any member offering a resolution or order shall write his name on the bottom of the back of such paper.

42. All city officers shall be voted for in accordance with Section 7, Chapter 26, of the Revised Laws.

43. The clerk shall keep brief minutes of the votes and proceedings of the body, entering thereon all accepted resolutions; shall notice reports and memorials, and other papers submitted to the board, only by their titles or by a brief description of their purport.

44. The clerk shall keep the record of committees that may require that service; and on the appointment of every standing committee, a book for records shall be provided by its chairman, or by said clerk. The clerk shall have the custody of all minutes by him kept; and the records of the several committees shall be open to the inspection of members of the City Council.

45. With the exception of an order for a joint convention, any joint order or resolution originating in the Common Council shall be copied, and shall, previous to the hour for calling the meeting to order, be posted by the clerk, in some prominent place in the Common Council Chamber or coat room, where it may be open to the inspection of members.

46. All orders, resolutions, reports, petitions or other papers (except communications) requiring concurrent action, or action by this body only, shall be filed by members in the office of the City Clerk at least twenty-four hours before the time set for the meeting of the body ; also all reports or papers from committees.

47. No paper entered in violation of the preceding rule shall be considered except by unanimous consent.

48. The clerk shall, previous to each regular or special meeting, prepare, in the sequence of the order of business, a brief synopsis of all matters to be acted upon, and place, or cause to be placed, on the desk of each member, a copy of the same, prior to the hour designated for calling such meeting to order.

49. "Cushing's Manual" shall be authority on all questions of debate or parliamentary usage, when the same does not conflict with the rules and orders of this body.

50. A copy of "Cushing's Manual" shall, at all times, during the sessions of this body, be on the desk of the President.

#### SPECIAL RULE.

All joint orders requiring concurrent action, calling for the contraction of loans, except loans in anticipation of taxes, shall first be read for information and shall then lie upon the table until the next meeting, when action upon the passage of the same may be taken. This rule shall not be suspended or repealed unless by a two-thirds vote of the members present.



## CITY COUNCIL AND COMMITTEES FOR 1903.

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### MAYOR

CHARLES E. HOWE.....45 Varney Street

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### ALDERMEN

GEORGE E. BURNS.....25 Eighteenth Street

JAMES B. CASEY.....87 Summer Street

LUCIUS A. DERBY.....148 First Street

JAMES J. GALLAGHER.....168 Cumberland Road

DAVID GEROW,.....162 Chelmsford Street

JAMES G. HILL.....263 Appleton Street

RICHARD J. McCLUSKEY.....161 Lakeview Avenue

JAMES F. MISKELLA.....35 Mead Street

CHARLES H. MOLLOY.....343 Market Street

JAMES F. MISKELLA .....Chairman

GIRARD P. DADMAN.....Clerk

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### COMMON COUNCILMEN

#### Ward One

CECIL L. ADAMS.....244 Market Street

JAMES W. BARRY.....177 Middlesex Street

JAMES J. HAYES.....85 French Street

**Ward Two**

THOMAS J. CONNERS.....5 Franklin Court, Adams Street  
 FREDERICK CRONAN.....177 Adams Street  
 JOHN J. PINDER.....159 Broadway

**Ward Three**

THOMAS H. BRADEN.....9 Coral Street  
 ASA B. HILLIARD.....59 Royal Street  
 CHARLES H. WORCESTER.....158 Branch Street

**Ward Four**

DENNIS J. COONEY.....74 Elm Street  
 TIMOTHY DONOHUE.....43 Whipple Street  
 PATRICK F. WELCH .....537 Lawrence Street

**Ward Five**

HUGH FINNERTY .....191 Fayette Street  
 FRANK A. McLAUGHLIN.....30 Pleasant Street  
 GEORGE B. ROCHE.....12 Cady Street

**Ward Six**

FREDERICK G. BALDWIN.....365 Beacon Street  
 SAMUEL FLEMING .....75 Hampshire Street  
 C. FRED HARD.....50 Sixth Street

**Ward Seven**

EDMOND P. FONTAINE.....767 Merrimack Street  
 WILLIAM J. HAYES.....61 Coranell Avenue  
 ANDREW LIVINGSTON.....38 Fourth Avenue

**Ward Eight**

WILLIAM H. DODGE.....28 So. Walker Street  
 WILLIAM FAIRWEATHER.....756 School Street  
 HAMLET S. GREENWOOD .....12 Wilsondale Place

**Ward Nine**

WILLIAM G. BROWN.....185 Andover Street  
 JOHN W. DALY.....76 Andrews Street  
 JOHN S. PALM.....25 Fay Street  
     CECIL L. ADAMS .....President  
     FRANK M. DOWLING.....Clerk

**MEETINGS OF THE CITY COUNCIL**

The regular meetings of both branches of the City Council are held at the City Hall as follows :—

**ALDERMEN**

Second and fourth Tuesday in each month except August.

January.....13 and 27	July .....14 and 28
February .....10 and 24	September.....8 and 22
March.....10 and 24	October.....13 and 27
April.....14 and 28	November .....10 and 24
May.....12 and 26	December.....8 and 22
June.....9 and 23	

At 8 P. M.

**COUNCILMEN**

First and third Tuesdays in each month except August.

January.....6 and 20	July .....7 and 21
February.....3 and 17	September.....1 and 15
March.....3 and 17	October.....6 and 20
April.....7 and 21	November .....3 and 17
May.....5 and 19	December.....1 and 15
June.....2 and 16	

At 8 P. M.

## Joint Standing Committees of the City Council

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APPROPRIATIONS—Aldermen Derby, Miskella and Gerow ; Councilmen Adams, Hilliard, Greenwood and Welch.

ACCOUNTS—Alderman Gallagher ; Councilmen Welch and Worcester.

CLAIMS—Aldermen Burns and Gallagher ; Councilmen Braden, J. J. Hayes and Barry.

COMMONS—Aldermen Gerow and Hill ; Councilmen Fairweather, J. J. Hayes and Finnerty.

EDUCATION—Aldermen Gallagher and Miskella . Councilmen Hilliard, Brown and Pinder.

FINANCE—Aldermen                      and                      ; Councilmen Daly (Chairman) Baldwin and Dodge.

FIRE DEPARTMENT—Aldermen McCluskey and Hill ; Councilmen Hard, W. J. Hayes and Donohoe.

INDUSTRIES—Aldermen Casey and McCluskey ; Councilmen Worcester, Livingston and Cooney.

LANDS AND BUILDINGS—Aldermen Gerow and Gallagher ; Councilmen Baldwin, Dodge and Cronan.

MILITARY AFFAIRS—Aldermen Miskella and Burns ; Councilmen Fairweather, Livingston and Donohoe.

ORDINANCES AND LEGISLATION—Aldermen McCluskey and Gerow ; Councilmen Hard, Fleming and Conners.

PRINTING—Aldermen Hill and Gallagher ; Councilmen Baldwin, Fontaine and McLaughlin.

STREETS—Aldermen Derby and Molloy ; Councilmen Braden, Greenwood, Fontaine, Fleming and Roche.



**Joint Special Committees**

CONTAGIOUS HOSPITAL—Councilmen Worcester, J. J. Hayes and Welch; Aldermen McCluskey and Burns.

PUBLIC BATHS—President Adams, Councilmen Fleming and Donohoe; Aldermen Molloy and Burns.

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**Standing Committees of the Board of Aldermen**

SEWERS—Aldermen Molloy, Burns and Gerow.

STATE AID—Aldermen Hill and McCluskey.

LIGHTING STREETS—Aldermen Miskella and Molloy.

ELECTRIC WIRES—Aldermen Derby, Casey and Miskella.

LICENSES—Aldermen Gerow, McCluskey and Hill.

WEIGHTS AND MEASURES—Aldermen Molloy and Burns.

BILLS IN SECOND READING—Aldermen Casey and Hill.

ENROLLMENT—Aldermen Gallagher and Casey.

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**Special Committee of the Board of Aldermen**

CLERK'S RECORD—Aldermen Burns and Molloy.

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**Standing Committees of the Common Council**

BILLS IN SECOND READING—Councilmen Brown, Dodge and Cooney.

ENROLLMENT—Councilmen Braden, Fairweather and Connors.

ELECTIONS AND RETURNS—Councilmen Hilliard, Palm and Pinder.

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**Special Committees of the Common Council**

CLERK'S RECORD—Councilmen J. J. Hayes and Barry.

RULES—Councilmen Worcester, W. J. Hayes and Daly.

## CITY OFFICERS FOR 1903.

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### MAYOR

Telephone, 395.

CHARLES E. HOWE.....Office, City Hall

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### CITY CLERK

Telephone, 430.

GIRARD P. DADMAN.....Office, City Hall

Chosen by the City Council in convention in January. Term expires first Monday in January, or when successor is chosen. City Charter, Sect. 17, Ord. Chap. 8.

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### ASSISTANT CITY CLERK

WILLIAM P. MCCARTHY.....Office, City Hall

Appointed by the City Clerk, subject to approval of the Board of Aldermen.

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### CLERK OF COMMITTEES

Telephone, 130.

FRANK M. DOWLING, Term expires 1904.....Office, City Hall

Chosen by concurrent vote in January for the term of three years.

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### CITY TREASURER AND COLLECTOR OF TAXES

Telephone, 577.

ANDREW G. STILES.....Office, City Hall

Chosen by the City Council in convention in January for one year from first day of April, or until successor is chosen. City Charter, Sect. 17. Ord., Chap. 9.

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### AUDITOR OF ACCOUNTS

Telephone, 74.

DAVID CHASE.....Office, City Hall

Chosen by concurrent vote in January or February for one year from the first day of April, or until successor is chosen. Ord., Chap. 2, Sect. 1.

**SUPERINTENDENT OF STREETS**

Telephone, 572-3.

LAFOREST BEALS.....Office, City Hall

Chosen by concurrent vote in January or February. Term expires first Monday in January, or when successor is chosen. Ord., Chap 39, Sect. 1.

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**CHIEF OF THE DEPARTMENT OF SUPPLIES**

Telephone, 230.

FRED H. ROURKE .....Office, City Hall

Chosen at annual city election. Sec. 3, Chap. 415, Acts of 1896.

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**CIVIL ENGINEER FOR THE CITY**

GEORGE BOWERS.....Office, City Hall

Chosen by concurrent vote in January or February for one year from the first day of April, or until successor is chosen. Ord., Chap. 13, Sect. 1.

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**CITY SOLICITOR**

Telephone 136-2.

WILLIAM A. HOGAN.....Office, City Hall

Chosen by concurrent vote in January or February for one year from first day of March, or until successor is chosen. Ord., Chap. 11, Sect. 1.

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**CITY MESSENGER**

Telephone, 130.

JOSEPH E. PATTEE.....Office, City Hall

Chosen by concurrent vote in January for one year from first Monday in February, or until successor is chosen. Ord., Chap. 10, Sect. 1.

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**LIBRARIAN OF CITY LIBRARY**

Telephone, 506-3.

FREDERICK A. CHASE.....Office at City Library

Chosen by the Board of Trustees of the City Library. Chap. 231, Sect. 5, Acts of 1883.

**BOARD OF PARK COMMISSIONERS**

HARVEY B. GREENE .....	Term expires 1904
THALLES P. HALL.....	Term expires 1905
COL. PERCY PARKER.....	Term expires 1906
HON. JOHN. E. DRURY, (Secretary).....	Term expires 1907
HON. JOHN J. PICKMAN, (Chairman).....	Term expires 1908

One member appointed annually by the Mayor with the approval of the City Council, for a term of five years from the first Monday in May. Revised Laws, Chap. 28.

CHARLES A. WHITTET, Superintendent.

**TRUSTEES OF CITY LIBRARY**

CHARLES E. HOWE, Chairman, Ex-Officio.....	Mayor
GEORGE F. RICHARDSON, Vice-Chairman.....	Term expires 1904
THOMAS WALSH.....	Term expires 1905
DENNIS A. SULLIVAN.....	Term expires 1906
MRS. ROWENA PALMER.....	Term Expires 1907
FRANK P. PUTNAM.....	Term expires 1908
FREDERICK A. CHASE.....	Clerk

One appointed by the Mayor in December for term of five years commencing the second Monday in January, or until successor is appointed.

Regular meeting last Tuesday in each month.

**SUPERINTENDENT OF PUBLIC BUILDINGS**

Telephone, 129-4.

JAMES B. CONLON.....Office, City Hall

Chosen by concurrent vote in January or February. Term expires first Monday in January, or when successor is chosen. Ord., Chap. 5, Sect. 1.

**CITY PHYSICIAN**

Telephone, 551-4.

WILLIAM M. JONES.....Office, City Hall

Chosen by concurrent vote in March or April. Term expires April 30, or when successor is chosen. Ord. approved June 27, 1900.

**TRUSTEES OF PUBLIC BURIAL GROUNDS**

Telephone, 130.

CHARLES E. HOWE, Chairman, Ex-Officio.....	Mayor
JOHN L. STEVENS .....	Term expires Jan. 1, 1904
ROBERT W. MOUNTFORD.....	Term expires Jan. 1, 1905
ROBERT W. MOUNTFORD.....	Secretary

One appointed by Mayor and Aldermen annually in December, for two years from the first day of January next ensuing, or until successor is appointed. Acts of 1891, Chap. 337.

**ASSESSORS OF TAXES**

Telephone 1363.

JOHN P. MAHONEY.....	Term expires 1904
ABEL WHEELER.....	Term expires 1905
C. ARTHUR ABBOTT.....	Term expires 1906
ABEL WHEELER.....	Chairman
JOHN P. MAHONEY.....	Secretary
STEPHEN J. KIRBY.....	Clerk

**ASSISTANT ASSESSORS OF TAXES**

RICHARD CHARLTON,	CHARLES RILEY,
EDWARD T. GOWARD,	JOHN C. KING,
THOMAS F. GARVEY,	TIMOTHEE VIGEANT.

ASSESSORS.—One chosen by concurrent vote annually in January or February, for the term of three years from the first Monday in January, or until successor is chosen. Ord., Chap. 3, Sect. 1.

ASSISTANT ASSESSORS.—Appointed by the Mayor in March or April, for May and June, subject to confirmation by the City Council. Ord. approved February 28, 1899.

**INSPECTOR OF WIRES**

JAMES F. McELHOLM.....	Term expires Feb. 1, 1904
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Appointed by Mayor and Aldermen in January for term of three years. Ord. approved July 15, 1898.

**OVERSEERS OF THE POOR**

Telephone, 566-3.

Chosen at the City Election for two years.

JOHN F. McCOY.....	Chairman
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**WARD**

- 1—SAMUEL HOLGATE, 46 Hamilton Corp.....Term expires 1903
- 2—FRANK McMAHON, 97 Adams Street.....Term expires 1903
- 3—JOHN F. McCOY, 112 Middle Street.....Term expires 1903
- 4—THOMAS F. SHEEHAN, 42 Kinsman Street.....Term expires 1903
- 5—MARTIN F. CONLEY, 7 Richmond Street.....Term expires 1904
- 6—EDWIN S. EASTMAN, 96 West Street.....Term expires 1903
- 7—CLARENCE G. COBURN, 215 Mammoth Rd....Term expires 1903
- 8—CHARLES E. TILTON, 103 So. Walker.....Term expires 1904
- 9—PATRICK J. McDERMOTT, 384 Concord St....Term expires 1904

Regular meetings last Thursday of the month at City Farm.

**Secretary and Superintendent of Out-Door Poor**

MARTIN J. COURTNEY, 26 Ames Street .....Office, City Hall  
Hours: 9 A. M. to 4 P. M.

**Superintendent of In-Door Poor**

CHARLES E. DONLAN, M. D.....Office and Residence, City Farm

**List of Committees**

ACCOUNTS—Messrs. McDermott, Coburn and Eastman.

AGRICULTURE, CATTLE AND SWINE—Messrs. Coburn, Conley and McDermott.

CARE AND REPAIR OF BUILDINGS—Messrs. McCoy, Sheehan and Coburn.

CLOTHING, FURNITURE AND BEDDING—Messrs. Coburn, McDermott and Tilton.

DISPENSARY—Messrs. Holgate, McMahon and Eastman.

PRINTING—Messrs. Tilton, Conley and Eastman.

OUT-DOOR RELIEF—Messrs. Conley, Tilton and Holgate.

PROVISIONS AND SUPPLIES—Messrs. Tilton, Holgate and McMahon.

WOOD YARD—Messrs. Eastman, McMahon and Holgate.

INSURANCE—Messrs. McCoy, McDermott and Coburn.

**District and Dispensary Physicians**

DISTRICT 1—TIMOTHY J. HALLORAN.....8 Runels Building

DISTRICT 2—ANDREW J. HALPIN.....26 Central Street

DISTRICT 3—CHARLES M. FRYE.....408 Middlesex Street

DISTRICT 4—O. P. PORTER.....253 Central Street

DISTRICT 5—JAMES E. LEARY.....322 Merrimack Street

DISTRICT 6—PIERRE BRUNELLE, JR... ..33 East Merrimack Street

**City Dispensary**

Office, City Hall.

EDWIN F. MASON.....Clerk

Open week days—9 A. M. to 1 P. M., 2.30 to 5 P. M.



**MEMBERS OF THE LOWELL WATER BOARD**

OFFICE, CITY HALL.

Telephone, 271-2

FRANK L. WEAVER.....	President
FRANK L. WEAVER.....	Term expires 1904
MICHAEL J. DOWD.....	Term expires 1905
AUGUST FELS.....	Term expires 1906
ROBERT J. CROWLEY.....	Term expires 1907
JOHN W. CRAWFORD.....	Clerk
ROBERT J. THOMAS.....	Superintendent

The members of the Lowell Water Board are chosen by concurrent vote in January or February for a term of four years from the first Monday in March following their election, one member retiring annually.

The Superintendent is chosen in March by the Board.

The Clerk is chosen by the Board in June. Ord., Chap. 45.

HOURS: 9 A. M. to 5 P. M.

**COMMISSIONERS OF SINKING FUNDS**

CHARLES L. KNAPP.....	Term expires 1904
AUSTIN K. CHADWICK.....	Term expires 1905
FRED A. BUTTRICK.....	Term expires 1906
ANDREW G. STILES.....	Secretary and Treasurer

One member elected annually by the City Council in December for three years, commencing January first. Revised Laws, Chap. 27, Sect. 14.

**BOARD OF CIVIL SERVICE EXAMINERS**

JOSEPH SMITH.....	Chairman
JOHN J. COLTON, M. D., CHARLES H. CONANT, JOSEPH SMITH	
CHARLES H. CONANT.....	Secretary

Appointed by State Civil Service Commissioners.

**SUPERINTENDENT OF STATE AID AND AGENT FOR  
THE BURIAL OF INDIGENT SOLDIERS  
AND SAILORS, ETC.**

Telephone, 136-4.

HUBERT M. POTTER

MARY C BRENNAN, Asst. Supt.

Appointed by Mayor and Aldermen. Ord. approved Sept. 27, 1898.



**FIRE DEPARTMENT**

The Chief Engineer is elected by concurrent vote in the month of March or April, for the term of three years. Sect. 2, Chap. 95, Acts of 1897.

Assistant Engineers appointed by the Mayor and Aldermen in March or April, the First Assistant for three years, the others for one year, commencing the first day of May. Ord. approved Nov. 27, 1896.

**Chief Engineer**

Telephone, 201-12.

EDWARD S. HOSMER, 202 Westford St. ....Term expires 1903  
Office, Engine House, Middle Street.

**Assistant Engineers**

JAMES F. NORTON, First Asst., 22 Ames St. ....Term expires 1904  
GEORGE F. SALMON, 91 Mt. Washington St. ....Term expires 1904  
EDWARD MELOY, 30 Fort Hill Ave. ....Term expires 1904  
HENRY W. BURTON, 15 Kimball Ave. ....Term expires 1904  
JAMES F. NORTON. ....Clerk of the Board

The Clerk is chosen by the Engineers.

**Operator of Fire Alarm Telegraph**

HENRY C. FERNALD. ....Central Station

**Committee on Fire Department**

Aldermen McCLUSKEY and HILL; Councilmen HARD, DONOHOE  
and W. J. HAYES.

**BOARD OF POLICE OF THE CITY OF LOWELL**

Office, Police Station.

FRANK B. DOW. ....Chairman  
HARRY R. RICE. ....Term expires 1904  
FRANK B. DOW. ....Term expires 1906  
FISHER H. PEARSON. ....Term expires 1908

Appointed by the Mayor under the provisions of Chap. 428 of the Acts of 1894 and Chap. 187 of the Acts of 1895.

JOSEPH SMITH. ....Clerk

Regular meetings at the Police Station every Tuesday evening at 8 o'clock.

EMMA B. VINING, Stenographer.

Telephone, 101.

WILLIAM B. MOFFATT, Superintendent of Police.  
 REDMOND WELCH, Deputy Superintendent  
 WILLIAM R. KEW, Captain.  
 JAMES BROSNAN, Lieutenant.  
 HUGH DOWNEY, Lieutenant.  
 JAMES E. WEBSTER, Lieutenant.  
 MARTIN CONNORS, Sergeant.  
 JOHN B. CROWLEY, Sergeant.  
 JOHN FREEMAN, Sergeant.  
 DAVID J. DONALDSON, Inspector, Criminal.  
 CHARLES LAFLAMME, Inspector, Criminal.  
 JOHN A. WALSH, Inspector, Criminal.  
 MARTIN MAHER, Inspector, Criminal.  
 FRANK GOODWIN, Inspector, Minor Licenses.  
 MICHAEL E. McDONALD, Inspector of Claims.

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### **Keeper of Lockup**

WILLIAM B. MOFFATT

### **Constables**

ADAMS, THOMAS E	LAPIERRE, JOSEPH S
BARIL, OVIDE E.	LORD, SAMUEL E
BATES, FREDERICK A.	MAGUIRE, JOHN E
BRADLEY, CHARLES F	MANSUR, EZRA E
BREAULT, JEAN L	McMANUS, JOHN
DONOVAN, EDWARD R	SEARLE, JOHN P
EMERY, DANIEL	SLATTERY, EDWARD F
GATELY, BERNARD F	VIAU, CHARLES G
GERRISH, ENOCH	WESSELLS, JAMES W
HARTWELL, CHARLES C	WORCESTER, CHARLES H

**POLICE COURT**

Telephone, 575.

SAMUEL P. HADLEY.....	Standing Justice
JOHN J. PICKMAN.....	Special Justice
FREDERICK A FISHER.....	Special Justice
JAMES F. SAVAGE.....	Clerk
EDWARD W. TRULL.....	Assistant Clerk
EDWARD F. SLATTERY.....	Probation Officer

**HEALTH COMMISSIONER**

Telephone, 101.

WILLIAM B. MOFFATT.....Office, Police Station

Chosen by concurrent vote by nomination commencing in the Board of Aldermen, in January or February. Ord., Chap. 41, Sect. 1.

**BOARD OF HEALTH**

Telephone, 549-4.

Term expires

JOHN H. MCGINNIS.....	First Monday in Feb., 1903
GUY HOLBROOK, M. D., Chairman.....	First Monday in Feb., 1904
WM. B. JACKSON, M. D.....	First Monday in Feb., 1905

One member appointed annually by the Mayor and Board of Aldermen in January for term of three years from first Monday in February. Chap. 332, Sect. 1, Acts of 1895.

**BOARD OF REGISTRARS OF VOTERS**

JOHN P. FARLEY, Chairman.

JAMES F. OWENS.....	Term expires May 1, 1904
ALBERT J. BLAZON.....	Term expires May 1, 1905
JOHN P. FARLEY.....	Term expires May 1, 1906
GIRARD P. DADMAN, City Clerk, Ex-Officio.	

Revised Laws, Chapter 11, Sect. 25.

One member appointed annually in March or April for three years from the first day of May next ensuing and until his successor is appointed and qualified.

**FENCE VIEWERS**

MARTIN HYDE, WM. A. ARNOLD, JOHN VINCENT

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

**FIELD DRIVERS**

FRANK FOX

WILLIAM G. BUMPS

JAMES E. WEBSTER

GEORGE W. ENWRIGHT

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 1.

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**POUND KEEPER**

ORVILLE W. PEABODY.

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 1.

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**SEALER OF WEIGHTS AND MEASURES**

JAMES R. FULTON.

Appointed by the Board of Aldermen by nomination in March or April. Revised Laws, Chap. 62, Sect. 18. Ord., Chap. 41, Sect. 2.

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**INSPECTOR OF MILK, VINEGAR and OLEOMARGARINE**

THOMAS O. ALLEN .....Office, City Hall

Appointed by the Board of Aldermen by nomination in January or February. Ord., Chap. 41, Sect. 2.

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**INSPECTOR OF ANIMALS**

WALTER A. SHERMAN.....Office, 340 Central Street

Appointed by the Mayor and Board of Aldermen annually in March, subject to approval of Board of Cattle Commissioners.

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**INSPECTORS OF PROVISIONS**

FREDERICK A. BATES

DANIEL W. LANE

Appointed by the Mayor and Aldermen.

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**INSPECTORS OF PETROLEUM OIL**

THOMAS O. ALLEN

EDWARD S. HOSMER

Appointed by the Mayor and Aldermen. Revised Laws, Chap. 102, Sect. 109.

**INSPECTORS OF BOILERS**

CLARENDON GOODWIN

BARTHOLOMEW SCANNELL

Revised Laws, Chap. 105, Sect. 7.

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**FISH WARDEN**

CHARLES W. SWAN

Appointed by the Mayor and Board of Aldermen. Revised Laws, Chap. 93, Sect. 54.

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**SUPERINTENDENT OF CITY SCALES—MEASURER OF  
WOOD AND BARK—INSPECTOR OF BALED OR  
BUNDLED HAY—AT CITY SCALES**

GEORGE F. NOONAN

Office at City Scales, rear of Market House Building.

Appointed by the Board of Aldermen in January or February. Ord. Chap. 46, Sect. 1; Chap. 21, Sect. 1.

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**MEASURERS OF WOOD AND BARK BROUGHT BY  
WATER OR RAILROAD CARS INTO THE CITY**

BATEMAN, JOHN F

MILLS, LEWIS E

CHOATE, JAMES F

SNELL, ORA M

Appointed by the Board of Aldermen in January or February. Ord. Chap. 46, Sect. 1.

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**MEASURERS OF WOOD AND BARK**

BATEMAN, JOHN F.

MURPHY, THOMAS J.

COBURN CLARENCE G.

NEALE, AUSTIN J.

FENTON. ABRAM

NOONAN, GEORGE F.

GILMORE, ROBERT J.

PARKER, EUDORA P.

HALEY, GEO. P.

WARREN, JOHN B.

HALL, OSCAR A.

WILLIAMS, HENRY J.

HAMBLETT, ADELAIDE M

SEXTON, CORNELIUS

McPHETRES, SAMUEL A

STANLEY, HARRY L

SULLIVAN, JOHN

Appointed by the Board of Aldermen in January or February. Ord. Chap. 46, Sect. 1.

**MEASURERS OF GRAIN**

FENTON, ABRAM	PARKER, EUDORA P
McPHETRES, SAMUEL A	SULLIVAN, JOHN
MURPHY, THOMAS J.	WILLIAMS, HENRY J.

Fees—2½ mills a bushel for measuring. Appointed by the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 2.

**SURVEYORS OF LUMBER**

BATEMAN, JOHN F	McDONALD, MURDOCK B
ERWIN, JAMES	GAFFNEY, PATRICK J
FENTON, ABRAM	McLAUGHLIN, JOSEPH O
FLEMING, FRANK E	McLEOD, MURDOCK K
FLEMING, GEO. A	McPHEE, HARRY
GALLUPE, ALLISON CHARLES	McPHETRES, SAMUEL A
GILMAN, ALBERT I	MURPHY, THOMAS J
HALL, OSCAR A	NEALE, AUSTIN J
HUNTER, WILLIAM	PRATT, MURRAY H
JOHNSON, COOLIDGE R	STOCKMAN, EDWARD
LEAVITT, GEORGE E	WALSH, PATRICK
LINSCOTT, HIRAM E.	WARREN, JOHN B
MARTIN, GEORGE	WIGGIN, BURTON H
MAYBERRY, OLIVER W	WHITNEY, GEO. W.

WOODWORTH, A. B. Jr.

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 1.

**SURVEYORS OF PLASTERING, BRICK OR STONE  
WORK AND PAINTING**

BATEMAN, JOHN F	LYFORD, ALFRED E
BROOKS, HENRY O	SMITH, MELVIN B
SNELL, ORA M	

Appointed by the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 2

**WEIGHERS OF HAY AND OTHER ARTICLES**

BEALS, LAFOREST	MORSE, ROBT. A
BROWN, F. L	MURPHY, THOMAS J
COBURN, CLARENCE G	PARKER, EUDORA P
FENTON, ABRAM	SHORT, HARRY W
HALL, L. C	SMITH, LORENZO E
HALEY, GEORGE P	WARREN, JOHN B
HARTWELL, GEO. W	WILSON, FRANKLIN T
MCPHETRES, SAMUEL A	WOLFF, ABRAHAM

Appointed by the Board of Aldermen in January or February. Ord. Chap. 21, Sect. 1.

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**WEIGHERS OF COAL**

BARTLETT, D. B. H.	MCPHETRES, SAMUEL A
BEALS LAFOREST	MILLS, LEWIS E
BROWN, FRANK L	MOORE, BENJAMIN M
CHOATE, JAMES F	MORSE, ROBERT A
DREWETT, EDWARD	MURPHY, THOMAS J
FENTON, ABRAM	PARKER, EUDORA P
GORMLEY, H E	RUSHWORTH, CHARLES B
GRIFFIN, WARREN T	RYAN, A. J
HALEY, GEORGE P	SEXTON, CORNELIUS
HAMBLETT, ADDIE M	SMITH, LORENZO E
HARRIS, FRANK H	STANLEY, HARRY L
HARTWELL, GEO. W	WARREN, JOHN B
KENNEDY, THOMAS J	WASHINGTON, GEORGE T
KITCHEN, C. B	WHITE, HERBERT R
LIVINGSTON, WILLIAM	WILSON, FRANKLIN T

Appointed by the Board of Aldermen in January or February. Ord., Chap. 41, Sect. 2



## SCHOOL COMMITTEE FOR 1903.

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ANDREW G. SWAPP.....President  
ARTHUR K. WHITCOMB.....Secretary

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### MEMBERS

- Ward 1—WILLIAM W. DUNCAN.....Term expires 1903  
Home Tel. 172-3 Office, 56 Hildreth Building.
- Ward 2—JOHN J. HANLON.....Term expires 1903  
169 Broadway.
- Ward 3—OTIS ALLEN.....Term expires 1904  
Tel. 905-4. Office, 226 Merrimack Street.
- Ward 4—WILLIAM F. REGAN.....Term expires 1903  
79 Kinsman Street.
- Ward 5—DENNIS J. MURPHY.....Term expires 1904  
Tel. 934-2. Office, 53 Central Street.
- Ward 6—JOSEPH N. MARSTON.....Term expires 1904  
Tel. 972-3. Office, 159 Middlesex Street.
- Ward 7—ANDREW G. SWAPP.....Term expires 1903  
Tel. 330. Office, 307 Pawtucket Street.
- Ward 8—CHARLES W. TAYLOR.....Term expires 1904  
Tel. 903-5. 17 Kirk Street.
- Ward 9—ALBERT G. THOMPSON.....Term expires 1903  
Tel. 434. Lowell Post Office.

**STANDING COMMITTEES**

1. ON TEACHERS AND SALARIES—Messrs. Swapp, Duncan and Murphy.
2. ON BOOKS AND SUPPLIES—Messrs. Marston, Taylor, Allen, Hanlon, Regan.
3. ON EVENING SCHOOLS—Messrs. Duncan, Swapp, Marston, Taylor, Hanlon.
4. ON HIGH SCHOOL—Messrs. Swapp, Allen, Marston, Murphy, Regan.
5. ON EVENING DRAWING SCHOOLS—Messrs. Taylor, Thompson, Regan.
6. ON MUSIC—Messrs. Murphy, Duncan, Allen.
7. ON REPORTS—Messrs. Duncan, Thompson, Hanlon.
8. ON ACCOUNTS—Messrs. Allen, Marston, Regan.
9. ON SCHOOLHOUSES AND HYGIENE—Messrs. Taylor, Murphy, Thompson.
10. ON RULES—Messrs. Thompson, Swapp, Hanlon.

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**ASSIGNMENT OF SCHOOLS**

- MR. DUNCAN, Ward 1—Edson, Elliot, Kirk Street, Cottage Street.
- MR. HANLON, Ward 2—Green, Worthen Street, Cheever Street, Morrill, Worthen Street Kindergarten.
- MR. ALLEN, Ward 3—High, Lincoln, Howard Street, Grand Street, Plain Street, Lincoln and Plain Street Kindergartens.
- MR. REGAN, Ward 4—High, Butler, London Street, Weed Street, Agawam Street, Carter, Street, Lyon Street, Agawam Street and Chapel Street Kindergartens.
- MR. MURPHY, Ward 5—High, Charles Street, Central Street, Ames Street, Fayette Street Charles Street Kindergarten.
- MR. MARSTON, Ward 6—High, Varnum, West Sixth Street, Tenth Street, Lakeview Avenue, Billings Street, Varnum Kindergarten.
- MR. SWAPP, Ward 7—High, Bartlett, Pawtucket, Training, Cross Street, Cabot Street, New Moody Street, Lexington Avenue, Pawtucketville and Bartlett Kindergartens.
- MR. TAYLOR, Ward 8—Highland, Franklin, Dover Street, Powell Street, Pine Street, Middlesex Village, Franklin, Dover and Pine Street Kindergartens,
- MR. THOMPSON, Ward 9—Moody, Pond Street, High Street, Sycamore Street, Moody Kindergarten.

## ASSIGNMENT OF EVENING SCHOOLS

MR. DUNCAN—High, Edson, Railroad Street.  
 MR. SWAPP—Bartlett, Green, Cheever, Pawtucket.  
 MR. MARSTON—Varnum, Aiken Avenue, Moody, Colburn.  
 MR. TAYLOR—Mann, Worthen.  
 MR. HANLON—Butler, Franklin.

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## SUPERINTENDENT OF PUBLIC SCHOOLS

ARTHUR K. WHITCOMB.....Office in City Hall

Telephone 566-4

Office Hours—One hour after the forenoon session of the schools, and from 2 to 3 o'clock on Saturday afternoon.

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## TRUANT COMMISSIONERS

GEO. F. STURTEVANT  
 JAMES KELLEY

WILLIAM F. THORNTON  
 CAMILLE ROUSSIN

Telephone 506-4.

OFFICE—Third Floor in City Hall.

Office Hours—Saturday, 2 to 3 o'clock, p. m. Other days 4 to 5, p. m., except during the summer vacation, when the office will be open from 9 to 10 o'clock a. m.

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## Regular Meetings of the School Committee

January.....	26	July.....	27
February.....	23	August.....	31
March.....	30	September.....	28
April.....	27	October.....	26
May.....	25	November.....	30
June.....	29	December.....	28

## CHARTER AMENDMENTS, ACTS OF 1896.

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### CHAP. 415.

#### AN ACT TO AMEND THE CHARTER OF THE CITY OF LOWELL.

Be it enacted, etc., as follows :

Sect. 1. All executive powers which are now by law vested in the City Council of the City of Lowell, or either branch thereof, shall hereafter be vested in and exercised by the Mayor of said city, except as hereinafter otherwise provided.

Sect. 2. The Mayor may suspend or remove any executive or administrative officer, except as hereinafter provided, for such cause as he shall deem sufficient, and shall set forth in the order of suspension or removal his reasons therefor, provided that no removal shall be made upon partisan grounds. The order of suspension or removal shall not take effect until it is approved by the City Council voting by yeas and nays. The City Council may, by a two-thirds vote in each branch, voting by yeas and nays, remove any of said officers without the consent of the mayor; provided, however, that nothing contained in this section shall apply to any of the following departments, namely : the School Committee, the Police Commission, the Water Board, the Overseers of the Poor, or the Trustees of the Public Library.

Sect. 3. There shall be a department of supplies, and all materials and supplies for the city shall be purchased by the chief or head of such department, subject to the approval of the Mayor. So far as is practicable, purchases shall be after public advertisement and under contract approved by the Mayor. All bills for materials and supplies shall show the date of purchase, date of delivery, the unit of price, the quality and quantity of articles purchased and received, the number and date of the order for purchase, and if the purchase is under contract, the number and date of the contract, and shall be entered in full in an invoice book, which shall always be open to public inspection. The chief of this de-

partment shall be elected by the qualified voters of the city voting at the annual municipal election, and shall hold his office for the next municipal year thereafter, subject to the provisions of section two of this act.

Sect. 4. The Mayor shall cause to be kept a record of all his official acts, and to aid him in his official duties may appoint one or more clerks.

Sect. 5. The heads of the several departments and offices shall have the power to appoint and employ and to discharge all subordinate officers and employees in their respective departments; and they shall keep a record, subject to inspection, of all so appointed and employed and of all discharged, and in all cases of discharge the grounds therefor; provided, however, that no removals shall be made upon partisan grounds.

Sect. 6 The heads of the several departments and offices shall have the general charge and management of all matters pertaining to their respective departments, and shall make and execute all contracts necessary therefor, except for the purchase of materials and supplies; but every contract made as aforesaid in which the amount involved exceeds three hundred dollars shall be approved by the Mayor before going into effect; provided that nothing in this section shall be construed to prevent the City Council, by ordinance, from transferring any of the duties imposed upon an appointed head of a department by this act or by ordinance, excepting the purchase of materials and supplies, to another head of a department or board or commission.

Sect. 7. Neither the City Council or either branch thereof, nor any committee or member thereof, shall directly or indirectly take part in the employment of labor, the purchase of material, the construction, alteration or repair of any public works or other property, or in the care, custody or management of the same, or in general in the expenditure of public money, or in the conduct of the executive or administrative business of the city, except as may be necessary for defraying the contingent and incidental expenses of the City Council, or of either branch thereof; nor shall they or either of them take part in the making of contracts.

Sect. 8. No sum appropriated for a specific purpose shall be expended for any other purpose; and no expenditure shall be made and no liability shall be incurred by or on behalf of the city until the City Council has duly voted an appropriation sufficient to meet such expenditure or liability, together with all prior unpaid liabilities which are payable therefrom, except that after the expiration of the financial year and be-

fore the making of the regular annual appropriations, liabilities payable out of the regular appropriation may be incurred to an amount not exceeding one-sixth of the total of the appropriation made for similar purposes in the preceding year ; provided, however, that nothing herein contained shall be construed to restrict or limit the School Committee in any expenditure which it is now or may be hereafter authorized to make under any general law of the Commonwealth, or to restrict or limit payments on account of the permanent or temporary debt, or such as are required by law to be made to the Commonwealth.

Sect. 9. All revenues and all moneys accruing to the City of Lowell from any source whatever, except trust funds and the revenues of the Water Department, shall, when collected or paid into the treasury, be carried to one general account, to be known as the General Treasury Fund ; and all appropriations by or on behalf of said city, except from trust funds and on account of the Water Department, shall be from such fund and as provided in section ten of this act.

Sect. 10. All bills or other claims, before they are finally certified by the Auditor or paid, shall pass the inspection of a committee of the City Council on accounts. Said committee shall consist of one member of the Board of Aldermen and two members of the Common Council, to be elected annually by ballot by the body they respectively represent. Said committee may report any such bill or claim to the City Council, with their reasons therefor, and no bill or claim so reported shall be passed by the Auditor or be paid without the consent of the Council. Said committee may require the opinion of the City Solicitor as to the legality of a bill or other claim.

Sect. 11. A yea and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or appropriation of the public moneys, or involving any debt or liability, and said vote shall be entered upon the records of each branch of the City Council.

Sect. 12. Less than a quorum of either branch of the City Council, or of the School Committee, or of the Board of Overseers of the Poor, may adjourn to a fixed day earlier than the next regular meeting, and shall have power to compel the attendance of absent members in such manner as the City Council may by ordinance provide.

Sect. 13. All acts or parts of acts and all ordinances of the City of Lowell inconsistent herewith are hereby repealed and annulled ; provided, that no act or ordinance heretofore repealed shall thereby be revived;



and, provided, also, that nothing in this act shall be taken to prohibit the City Council from abolishing any department, board, office or commission created by ordinance.

Sect. 14. The question of the acceptance of this act shall be submitted to the qualified voters of the City of Lowell at the annual State election in the present year, and the affirmative votes of a majority of the voters present and voting thereon shall be required for such acceptance. If so accepted, so much thereof as provides for the election of a Chief of the Department of Supplies shall take effect at the next annual municipal election, and the act shall take full effect on the first Monday of January in the year eighteen hundred and ninety-seven. [Approved May 16, 1896.]

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## ACTS OF 1897.

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[CHAP. 95.]

### AN ACT RELATIVE TO THE DUTIES AND POWERS OF CERTAIN OFFICERS OF THE CITY OF LOWELL.

Be it enacted, etc., as follows :

Section 1. The City Council of the City of Lowell, and each branch thereof, shall have and exercise all the power and authority relative to the election or appointment of city officers, or the confirmation of appointments to office, which were vested in them prior to the enactment of section one of chapter four hundred and fifteen of the acts of the year eighteen hundred and ninety-six.

Sect. 2. The Chief of the Fire Department of said city shall be elected by concurrent vote of both branches of the City Council.

Sect. 3. The City Council shall by ordinance determine what officers shall be the heads of the various departments of the City Government. The head of the department of supplies may sell or dispose of the personal property of the city, upon the recommendation of the Mayor and of the head of the department to which such property belongs, except the products of the City Farm, which the Superintendent of said farm shall have the right to dispose of.



Sect. 4. All ordinances of said city inconsistent herewith are hereby annulled, and all acts or parts of acts inconsistent herewith are hereby repealed.

Sect. 5. This act shall take effect upon its passage. [Approved February 20, 1897.]

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## ACTS OF 1898.

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[CHAP. 173.]

AN ACT RELATIVE TO APPOINTMENTS IN THE FIRE DEPARTMENT OF  
THE CITY OF LOWELL.

Be it enacted, etc., as follows:

Section 1. The Chief Engineer of the Fire Department of the City of Lowell may, on the recommendation of the Board of Engineers, appoint as members of the permanent force, or as call men, without civil service-examination, any person who has served as call or substitute call-man in said service for three or more successive years prior to the passage of this act.

Sect. 2. Said Chief Engineer shall have the power to discharge all subordinate officers and employees in the Fire Department of said city, except the members of said board, and with the approval of said board, to appoint and employ all such officers and employees.

Sect. 3. All acts and parts of acts inconsistent herewith are hereby repealed.

Sect. 4. This act shall take effect upon its passage. [Approved March 15, 1898.]

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### SEC. 7, CHAP. 26, REVISED LAWS.

No election of a city officer by a municipal body or board shall be valid unless made by a viva voce vote, each member who is present answering to his name when it is called by the clerk or other proper officer, stating the name of the person for whom he votes, or that he declines to vote. The clerk or other proper officer shall record every such vote.

# ORDINANCES OF THE CITY OF LOWELL

PASSED SINCE 1894.

AN ORDINANCE AUTHORIZING THE CITY TREASURER TO ISSUE REGISTERED CERTIFICATES, NOTES OR BONDS IN EXCHANGE FOR CERTIFICATES, NOTES OR BONDS PAYABLE TO BEARER.

Be it ordained, etc., as follows :

\*The City Treasurer may, in accordance with the provisions of Section 5 of Chapter 77 of the Public Statutes, at the request of the owner or holder of any bond, promissory note or certificate of indebtedness of the City of Lowell, at any time while more than one year remains before the principal of such bond, note or certificate is payable, issue in exchange therefor a bond, note or certificate of same effect, payable to the owner or holder by name.

The City Treasurer may also, under like condition, issue registered certificates, in substitution for any mutilated, defaced or indorsed bonds, notes or certificates; and where a bond, note or certificate of any issue has been lost or destroyed, the City Treasurer, under the direction of the joint standing committee on finance, may issue in place thereof a new bond, note or certificate of the same effect.

The City Auditor, as well as the City Treasurer, shall keep a register of the dates, numbers and amounts of all bonds, notes and certificates issued by the City Treasurer, showing to whom they were issued, when they are payable, and if issued in exchange, for what they were substituted. [Approved May 12, 1896.

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AN ORDINANCE AMENDING SECTION THIRTEEN OF CHAPTER ONE OF THE REVISED ORDINANCES SO AS TO PROVIDE THAT THE SALARIES AND COMPENSATION OF CITY OFFICERS WHEN ONCE ESTABLISHED SHALL CONTINUE UNTIL RE-ESTABLISHED OR CHANGED.

Be it ordained, etc., as follows :

Section 13 of Chapter 1 of the Revised Ordinances is hereby amended by striking out between the word "year" in the third line of said

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\*Now Sect. 4, Chap. 73, Revised Laws.

section and the word "provided" in the sixth line thereof, the following words: "for the year commencing on the first Monday of January next ensuing; and no change of salary shall be made to take effect during the time for which said salary was established," and inserting in place thereof the following: "provided that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section; and," so that said section as amended shall read as follows:

Section 13. The salaries and compensation of city officers shall be established in the month of December and after the annual municipal election shall have been held, in each year; provided, that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section; and provided that in case any new office shall be created, the salary of said newly created office may be fixed at any time; and the salaries or compensation fixed for the payment of said officers shall be in full for all services performed by them by virtue of their offices; and all sums of money received by them from any and every source, in discharge of said services, during any quarter of the fiscal year, shall at the expiration of said quarter be by them paid over or accounted for to the City Treasurer. [Approved May 12, 1896.

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AN ORDINANCE REGULATING THE WEIGHING AND MEASURING OF CERTAIN ARTICLES PURCHASED BY THE CITY.

Be it ordained, etc., as follows:

All supplies of hay, grain, straw, coal, and any other material purchased for the use of the city or any department thereof exceeding one hundred pounds in weight and usually weighed, shall be weighed on the city scales, and all wood purchased for said city shall be measured by the City Measurer of Wood, and no bills shall be paid by the City Treasurer or approved by any committee for such article so furnished the city, unless the certificate of said weigher or measurer shall accompany or be attached to said bill. [Approved May 12, 1896.

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AN ORDINANCE TO PREVENT THE PLACING OF ASHES, GLASS, CROCKERY, ETC., IN OR ON THE PUBLIC STREETS OR WAYS.

Be it ordained, etc., as follows:

Section 1. Any person who shall put or place, or cause to be put or placed, in or upon any street, lane or alley, or other public place in this

city, any ashes, glass, crockery, scrap iron, nails, tacks or any other article which would be liable to injure the feet of children or animals, or the tires of bicycles or other vehicles which have wheels with rubber or pneumatic tires, shall be deemed guilty of a misdemeanor.

Sect. 2. Any person violating the provisions of the preceding section or who is guilty of the misdemeanor therein described, shall be liable to a fine not less than two dollars or more than twenty dollars for each offence. [Approved Oct. 9, 1896.]

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AN ORDINANCE AMENDING SECTIONS ONE AND NINE OF CHAPTER TWENTY OF THE ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows :

Section 1. That section 1, of Chapter 20 of the Ordinances of the City of Lowell be and the same is hereby amended by inserting after the word "engineer" in the second line of said section, the words "a first assistant engineer and three other," and by striking out the word "four" in the second line of said section, and by inserting after the word "removed" in the sixteenth line of said section, the words "the first assistant engineer shall be appointed by the Mayor and Aldermen in the month of March or April, or whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May, and until his successor is appointed, or he is removed; and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith and shall continue therein until the expiration of the full term as existing at the time of said appointment, or until removed," and by inserting between the words "said" and "assistant" in the seventeenth line of said section, the word "other" and by inserting after the word "engineer" in the twenty-eighth line of said section, and before the word "shall" in the twenty-ninth line of said section, the words "and first assistant engineer," so that said section shall read as follows :

Section 1. The Fire Department shall consist of a Chief Engineer, a First assistant engineer, who shall perform such duties as may be required of him by the Chief Engineer, and three other assistant engineers and as many enginemen, hosemen, hook and ladder men and other persons, to be divided into companies, as the number of engines and other

fire apparatus of the city shall from time to time require ; the Chief Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, and whenever a vacancy occurs, and he shall enter upon the discharge of the duties of said office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for the term of three years from said first day of May or until he is removed ; and if appointed after the first day of May of any year, he shall enter upon the discharge of the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at the time of his said appointment, or until removed. The First Assistant Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, and whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May and until his successor is appointed or he is removed, and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at the time of his said appointment, or until he is removed ; and the appointment of said other assistant engineers shall be made by the Mayor and Aldermen in the month of March or April annually, and whenever a vacancy occurs, and they shall hold their respective offices for the term of one year from the first day of May succeeding their appointment, or until others are chosen ; all other members of the Fire Department shall be nominated by the Board of Engineers, and their names sent to the Mayor and Aldermen, and when by them appointed they shall be members of the Fire Department ; provided, that vacancies may be filled at any time, and that the Mayor and Aldermen may at any time remove any and all of said officers or members ; except that the Chief Engineer and First Assistant Engineer shall not be removed without a hearing and cause shown thereat. No person shall be appointed a member of the Fire Department who does not sustain a good moral character and who is not a citizen of the City of Lowell.

Sect. 2. This ordinance shall take effect upon its passage. [Approved Nov. 27, 1896.

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AN ORDINANCE IN RELATION TO AN ORDINANCE ON OPENINGS AND EXCAVATIONS IN STREETS AND IMPOSING A PENALTY.

Be it ordained, etc., as follows :

Section 1. No person, firm or corporation shall dig up, make any



excavation in, or in any manner change or interfere with the surface or grade of any street for the purpose of laying water, gas or sewer pipes or railway tracks, or for any other purpose, without first giving notice to the Superintendent of Streets, which notice shall state specifically the time when work will be commenced and the probable time within which it shall be completed.

Sect. 2. When any opening or excavation shall be made in any street in pursuance of Section 1, the Superintendent of Streets, by himself or by a servant or agent appointed by him for that purpose, shall see that the surface of such streets is left in good order and condition for public travel thereon. The expense for labor and material used in closing and covering such excavation shall in all cases be borne by the party causing the same to be made.

Sect. 3. Said Superintendent shall, when about to build a new sewer or repair an old one, notify all the abutters on that part of the line of said sewer when he proposes to do work, so that said abutters may enter said sewer. He shall notify all abutters, when about to construct a new street, at least four weeks before beginning work, and when about to make a new surface of any street, at least two weeks before beginning work, shall notify the Superintendent of Lamps and Water Board and all persons authorized to place any obstruction in such street, and shall require and see that all said departments or persons having any work to be done in the street so designated, shall do all such work before the surface of such street is again prepared for and opened to public travel, and after the completion of the work then done in such street, shall not permit any department or person who shall have been so notified, for the space of two years, to again disturb the surface of such street or way within the area of such previous disturbance, except in case of obvious necessity, to be verified in writing to, and approved by the Mayor, and except in cases of tracks or leaks in pipes, sewers or wires.

Sect. 4. Any person, firm or corporation who shall dig up, make any excavations, or in any way change or alter the grade or surface of any accepted street, without giving the notice mentioned in Section 1 of this ordinance, shall be punished by a fine not exceeding twenty dollars.

Sect. 5. All ordinances and parts of ordinances, resolutions and orders of the City Council inconsistent herewith, are hereby repealed.  
[Approved November 27, 1896.]

AN ORDINANCE CREATING THE OFFICE OF SUPERINTENDENT OF COMMONS AND PROVIDING FOR THE ELECTION OF SUCH OFFICER.

(Superceded by Chap. 28 Revised Laws.)

Be it ordained, etc., as follows ;

Section 1. There shall be chosen by concurrent vote of both branches of the City Council in the month of January, 1898, a Superintendent of Commons; and in the month of January in each year thereafter, the City Council by concurrent vote of both branches shall elect a Superintendent of Commons who shall hold his office for one year and until his successor is chosen, but said officer may be removed from office at any time by a two-thirds vote of both branches of the City Council voting by yeas and nays. Any vacancy which may occur in said office shall be filled in like manner by concurrent vote of the City Council for the remainder of the unexpired term.

Sect. 2. Said Superintendent of Commons shall be the head of the Department of Commons, and shall have the care and control of all the commons and parks of the city and of all the property connected with said department, and shall have the general care and management of all matters pertaining to said department; shall make and execute all contracts necessary therefor, except the purchase of material and supplies, but every contract made as aforesaid in which the amount involved exceeds three hundred dollars, shall be approved by the Mayor before going into effect. [Approved June 18, 1897.

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AN ORDINANCE AMENDING SECTION TWELVE OF CHAPTER FIVE OF THE REVISED ORDINANCES.

Be it ordained, etc., as follows :

That Section 12 of the Revised Ordinances of the City of Lowell be and the same is hereby amended by striking out the words "nor on either side of Westford Street from the westerly line of Grand Street to the easterly line of Royal Street for a distance of fifty feet back from either line of Westford Street. [Approved July 21, 1897.



AN ORDINANCE AMENDING SECTION FIFTEEN, CHAPTER THIRTY-NINE OF THE REVISED ORDINANCES OF THE YEAR EIGHTEEN HUNDRED AND NINETY-FOUR.

Be it ordained, etc., as follows :

That Section 15, Chapter 39, of the Revised Ordinances of the year 1894 be and is hereby amended by striking out of the seventh line the word "forty-third," and inserting in place thereof the word "forty-fifth." [Approved July 21, 1897.

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AN ORDINANCE REGULATING HAWKERS AND PEDDLERS.

Be it ordained, etc., as follows :

Section 1. No person shall hawk or peddle, sell or expose for sale within said city any of the articles enumerated in Section 1 of Chapter 68\* of the Public Statutes, until he has been duly licensed by and has recorded his name and residence with the Board of Police of the City of Lowell, and has been assigned a number by said board, to be worn in such manner as said board may prescribe. Provided, however, that the foregoing provisions shall not apply to any other person than the one named in the license.

Sect. 2. No person hawking, peddling or selling, or exposing for sale any of the articles enumerated in Section 1 of Chapter 68\* of the Public Statutes, shall cry his wares to the disturbance of the peace and comfort of the inhabitants of the city.

Sect. 3. No hawker or peddler shall carry or convey any of the articles enumerated in Chapter 68\* of the Public Statutes in any manner that will tend to injure the public health, or disturb the public peace or comfort, nor otherwise than in vehicles and receptacles which have printed on them in letters and figures at least two inches in height the name of the person selling and the number given him by the Board of Police.

Sect. 4. Whoever violates any of the provisions of the preceding sections of this ordinance shall be liable to a penalty of not more than twenty dollars for each offence. [Approved July 29, 1897.

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\*Now Chap. 65, Sect. 15, 16 of the Revised Laws.

AN ORDINANCE TO AMEND SECTION EIGHTEEN OF CHAPTER SIX OF THE CITY ORDINANCES RELATING TO THE HITCHING OF HORSES TO LAMP POSTS.

Be it ordained, etc., as follows :

Section 18 of Chapter 6 of the City Ordinances is hereby amended by striking out all after the word "any" in the third line thereof and inserting instead thereof the words "lamp post maintained by the city," so that said section as amended shall read as follows :

Sect. 18. No owner, driver or other person having the care or ordering of a vehicle shall hitch or fasten the horse or horses attached thereto to any lamp post maintained by the city. [Approved January 1, 1898.

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AN ORDINANCE AUTHORIZING THE CITY TREASURER TO PRESCRIBE THE SYSTEM OF BOOKKEEPING FOR CERTAIN DEPARTMENTS AND OFFICERS RECEIVING MONEY BELONGING TO THE CITY AND PROVIDING FOR MORE FREQUENT RETURNS OF SUCH MONEY TO THE CITY TREASURY.

Be it ordained, etc., as follows :

Section 1. All departments and officers of the City Government, except the City Treasurer, whose official duty requires the receipt of money belonging to the city, shall keep such books and records relating to the same as shall be prescribed by the City Treasurer.

Sect. 2. The heads of each department and officers receiving money for the city shall remit to the Treasurer as often as once in each month any balance that may be in the possession of such department or officer belonging to the city, except in case when the time for such payment into the City Treasury is prescribed by statute.

Sect. 3. The Joint Committee on Accounts shall annually, in connection with the annual examination of the accounts of the City Treasurer, examine, investigate and audit the books and accounts of all departments and officers receiving money for the city, and said committee shall make report of such examination to the City Council.

Sect. 4. All heads of departments and officers whose official duty requires the rendering of bills to individuals, cities or towns for charges of any nature, shall hereafter deliver all such bills to the City Treasurer for collection through his office.

Sect. 5. Section 9 of Chapter I of the Revised Ordinances and all ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved January 1, 1898.

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AN ORDINANCE PROVIDING FOR ESTIMATES FOR APPROPRIATIONS AND FOR OTHER PURPOSES.

Be it ordained, etc., as follows :

Section 1. At the beginning of each municipal year and not later than the third Tuesday in January the Mayor shall make and transmit to the City Council an estimate of the expenditures required for the year. Such estimate shall be framed and itemized so as to show separately :

Par. 2. The amounts required by each department, office, board, commission or other sub-division of the executive branch of the government, and so far as may be practicable for the sub-divisions of the work of each department.

Par. 3. The salary or compensation of each officer, deputy, assistant, clerk, or employee of the city not classed as a laborer. The amounts required for labor shall, when practicable, be stated separately from those for materials and supplies.

Par. 4. Such estimate shall be in such form as to show in parallel columns, opposite each item, the amount paid for the previous year, and the amount unexpended at the close of such year.

Sect. 2. The Mayor shall make, or cause to be made, and shall transmit to the City Council with the estimate required by the preceding section :

Par. 2. An itemized estimate of the revenues of the year from all sources except taxation of real and personal property and polls.

Par. 3. A statement of the balance unpaid at the close of the previous year on account of temporary loans, and the amount due by financial years, as unpaid taxes on real and personal property and polls.

Par. 4. An itemized statement of the debt, with interest becoming due during the year, and the margin available for loans within the debt limit for the year.

Par. 5. An itemized statement of all orders, etc., of the City Council involving expenditures which have not been appropriated for. In all cases the finances of the water service shall be shown separately.

Sect. 3. All regular annual appropriations shall be for and only applicable to the liabilities incurred during the year in which they are made, any form of phraseology in the order, resolution or vote providing for the same, to the contrary notwithstanding.

Par. 2. It shall be the duty of the Auditor to close all regular annual appropriation accounts with the last secular day in December of the year for which the appropriations are made, and to credit the general treasury fund account or accounts with the water service, as the case may be, with the balance to the credit of such appropriations; and thereafter, no payments shall be made under such appropriations. He shall promptly report to the City Council the amount of each balance thus credited, and amount available in the general treasury fund, and the account with the water service, for the expenditures of the current year not otherwise appropriated.

Par. 3. All claims, accounts and bills against the City of Lowell under such appropriations remaining unpaid at such date, shall be numbered consecutively, and be entered by the Auditor in such order, in a permanent book of record, to be known as a register of claims, so as to show the name of the claimant, the amount claimed and allowed, the nature of the service and the action had thereon. The Auditor shall transmit to the City Council, on or before the first regular meeting night in February, of either branch of the City Council, a schedule of such claims with a condensed statement of the nature of each claim, and the action had thereon.

Sect. 4. The several estimates and statements called for by this ordinance shall on their receipt by either branch of the City Council be referred, without other action, to the Joint Committee on Appropriations.

Par. 2. The Committee on Appropriations shall consist of the Chairman and two additional members of the Board of Aldermen, and the President and three additional members of the Common Council.

Section 6 of Chapter 1 of the Ordinances of the City of Lowell is hereby repealed.

Par. 3. Said committee shall have access to all or any of the records and official papers of the city, shall have power to require from any officer or employee of the city such additional statement or statements relating to the expenditures and revenues of the city as it may deem essential, and to summon any officer or employee of the city to be present at any designated meeting of said committee; and to remain in attendance until discharged by the committee; and any officer or employee who shall fail or refuse to comply with such request, order or summons, may be reported to the City Council or either branch thereof, for such action as it may have the power to take and see fit to exercise.

Sect. 5. The Committee on Appropriations shall make a final report in print, not exceeding two hundred copies, to the City Council or either branch thereof, on or before the fifteenth day of February of each year unless granted further time by the City Council.

Sect. 6. All ordinances or parts of ordinances conflicting with this ordinance are hereby repealed. [Approved January 1, 1898.]

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AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF AN INSPECTOR OF WIRES AND DEFINING THE DUTIES OF SUCH OFFICER, IN ACCORDANCE WITH CHAPTER FOUR HUNDRED AND FOUR, ACTS OF 1890.\*

Be it ordained, etc., as follows:

Section 1. Within thirty days after the passage of this ordinance, there shall be appointed by the Mayor, subject to confirmation by the Board of Aldermen, an Inspector of Wires for the City of Lowell, who shall enter upon the duties of his office immediately, and shall hold said office, unless sooner removed, until the first day of February, 1901, and

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\*Now Chap. 122, Revised Laws.



prior to the first day of February, 1901, and prior to the first day of February of every third year thereafter, there shall be appointed in like manner an Inspector of Wires who shall hold his office during a term of three years and until his successor is appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Inspector of Wires shall perform the duties prescribed by Section 3, Chapter 404 of the Acts of 1890,\* and such other duties as are or may be hereafter prescribed by the laws of the Commonwealth or the ordinances of the city. He shall annually in the month of January make a report to the City Council of the business of his office for the year ending the thirty-first day of December next preceding. [Approved July 15, 1898.]

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AN ORDINANCE RELATING TO THE PERMANENT REPAIRS ON STREETS  
AND THE PLACING OF UNDERGROUND SERVICES THEREIN; ALSO  
TO THE NECESSARY REPAIRS OF SAME.

Be it ordained, etc., as follows:

Section 1. That before any street is paved with granite, concrete or other paving, macadamized or otherwise put in permanent repair by the city, the owners of land abutting on such street shall be notified at least four weeks previous to the time when such permanent improvements are to be commenced, that all underground services, whether for sewer, water, gas, electrical or other connections, shall be constructed and placed in said street previous to the date set for the making of the said permanent improvements.

Sect. 2. That all corporations or individuals having services laid in said street, or intending or desiring to construct the same, whether for gas, electric, telephone, telegraph, or for any service of whatsoever nature, or who shall desire to renew or repair services already constructed, shall be notified by the posting of a notice at the City Hall of the intention of the city to so repair such street, and by a notice which shall be published for six consecutive days in one morning and one evening newspaper printed in the City of Lowell, the last publication of said notice to be at least three weeks previous to the time stated for making said permanent improvements.

Sect. 3. That when any street has been so paved, macadamized, or otherwise put in permanent repair, it shall not be opened or torn up for the placing of any new underground construction of any nature whatsoever during five years next succeeding the date in said published and posted notices stating the intention of the city to place said street in permanent repair; provided, however, that in case repairs to any service become necessary, the same may be made after a permit has been granted by the Board of Aldermen, and said repairs shall be made under the supervision of the Superintendent of Streets. In case of leakage of gas or water pipes, the same may be repaired at once by the Gas Company or Water Board, and the surface of the street placed in a condition satisfactory to the Superintendent of Streets.

Sect. 4. Wherever on said street there may be unimproved land, and where no sewer, gas, water or other necessary services have been constructed, the same shall be laid and constructed, to a point at least two feet beyond the outside line of the sidewalk on said street, one each of the services mentioned for gas, water and sewer connections, for each fifty feet of frontage of the said land on the said street, or at such distances as may be agreed upon by the owner of said land and the Superintendent of Streets. In case of neglect of the owner or of a corporation or individual to construct the same, said service for sewer, water and gas connections may be constructed by the city, and shall be paid for by the parties to whom rightfully belongs the construction of the same.

Sect. 5. Any violation of the foregoing conditions in regard to the digging up of streets shall be punished by a fine of not less than twenty dollars (\$20).

Sect. 6. All ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved August 5, 1898.

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AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF A SUPERINTENDENT AND ASSISTANT SUPERINTENDENT OF STATE AID.

Be it ordained, etc., as follows:

Section 1. Within thirty days after the passage of this ordinance there shall be appointed by the Mayor, subject to confirmation of the Board of Aldermen, a Superintendent of State Aid and an Assistant Superintendent of State Aid for the City of Lowell, who shall enter upon



the duties of their offices immediately and shall hold said offices, unless sooner removed, until the first day of February, 1899; and prior to the first day of February, 1899, and prior to the first day of February of every year thereafter, there shall be appointed in like manner a Superintendent of State Aid and an Assistant Superintendent of State Aid, who shall hold their offices during a term of one year and until their successors are appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Superintendent of State Aid shall disburse State Aid and city aid under the direction of the Mayor and Board of Aldermen as prescribed by \*Chapter 279 of the Acts of 1893, \*Chapters 279 and 301 of the Acts of 1894, \*Chapter 279 of the Acts of 1896, \*Chapter 561 of the Acts of 1898, or any other laws of the Commonwealth, or that may be hereafter prescribed by the ordinances of the city. He shall annually, in the month of January, make a report to the City Council of the business of his office for the year ending on the thirty first of December next preceding.

Sec. 3. Said Assistant Superintendent of State Aid shall perform such duties as may be prescribed by the Superintendent of State Aid. [Approved September 27, 1898.

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AN ORDINANCE AMENDING SECTION SIX OF CHAPTER NINE OF THE  
REVISED ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows:

That Chapter 9 of the Revised Ordinances of the City of Lowell be amended by striking out Section 6 and substituting therefor the following:

Sect. 6. The City Treasurer shall receive and have the care and custody of all sums of money paid the city by persons for the perpetual care of lots in any of the city cemeteries, and give the vouchers of the city therefor, and money so received shall constitute a special fund to be known as the "Cemetery Fund for the perpetual care of lots." The Treasurer shall not receive a sum of money less than one hundred dollars (\$100.00) for the perpetual care of lots in any of the city cemeteries or public burial grounds. The Treasurer shall notify the Superintendent of the cemetery of all such payments, together with the description of the

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\* Now Chap. 79, Revised Laws,

lots and graves on account of which such payments are made, and annually, at such time as the Trustees of Public Burial Grounds request, shall pay over to them four per centum as interest upon all sums so paid to and receipted by him. The Treasurer shall invest the moneys of this fund in securities in which by law the funds of savings banks may be invested, and pay the amount of interest realized thereon into the City Treasury. [Approved October 11, 1898.]

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AN ORDINANCE RELATING TO THE CONSTRUCTION AND REPAIR OF  
BUILDINGS.

Be it ordained, etc., as follows :

Section 1. Before the repair, erection, construction or material alteration of any building, the owner, architect or builder thereof shall file with the Superintendent of Buildings a statement in writing, giving the intended location of such building, its dimensions, materials, manner of construction and estimated cost. If such a building is to be repaired, erected or materially altered within the fire limits of the city, such owner, architect or builder shall, in addition to the statement aforesaid, submit for examination full specifications and plans of the proposed repairs, buildings or alterations; the owner or contractor shall also sign an agreement that the proposed work shall be done in accordance with the description set forth in such plans, specifications and statement, and all such matters and things connected with such work shall be done in strict compliance with this chapter. If it appears from said statement, plans and specifications that the building to be erected, altered or repaired will conform to the provisions of this chapter, so far as applicable thereto, then the Superintendent of Buildings shall issue a permit. No person shall repair, construct or materially alter any building without such permit.

Sect. 2. The Superintendent of Buildings shall furnish suitable blanks upon which applications shall be made; and such applications shall be recorded by the Assessors in a book provided for the purpose, each page of which shall be a duplicate of such application for the erection, construction or material alteration of any building in the City of Lowell after the passage of this ordinance.

Sect. 3. This ordinance shall take effect upon its passage. [Approved December 29, 1898. (Amended 1901.)]

AN ORDINANCE RELATING TO ASSESSMENT OF TAXES IN THE CITY OF  
LOWELL.

Be it ordained, etc., as follows :

Chapter 3 of the Revised Ordinances of 1894 is hereby amended by striking out all after Section 1 of said chapter, and substituting in place thereof the following :

Sect. 2. The Board of Assessors shall annually, in the month of January, or as soon as practicable thereafter, organize, by choosing one of their number to act as Chairman ; said Chairman shall not receive extra compensation, and all members of the Board shall devote their whole time to the service of the city.

Sect. 3. It shall be the duty of the Assessors of Taxes to complete their assessment and place the list of taxes in the hands of the Collector of Taxes on or before the first day of September, annually ; and they shall, on or before the first day of September, annually, indicate on said list the residence of the several taxpayers for that year and the year next preceding.

Sect. 4. When any tax shall be abated in whole or in part by the Assessors of Taxes, they shall make a record thereof in a book to be kept by them for that purpose, which record shall contain the names of all persons whose taxes may be so abated, and the reasons for such abatement ; and they shall also annually, in the month of January, make out and transmit to the City Council a full report of the work of their Board, said report to show the total valuation of the city, amount of real estate, amount of personal estate, total corporation valuation in detail, total valuation in bank stock, street-watering assessment, number of polls, name, amount and reason of any abatement of taxes, and such other items as may be of interest to the public. Said figures to be in a column parallel to a column containing the figures of the preceding year.

Sect. 5. The Assessors shall annually, on the thirty-first day of December, report to the Auditor all abatements of taxes made by them during the year ending on said day, distinguishing the abatements made on the different years' taxes, and whether abated before or after collection.

Sect. 6. The Assessors shall have full power to hire as many temporary clerks, not to exceed six, as may be necessary to assist them in the performance of their duties, the compensation of said clerks not to exceed

two dollars and fifty cents per day, and they shall only be employed during the months of May to September inclusive. Provided, however, that permanent clerks, not to exceed two, one to be known as Chief Clerk, may be employed the whole year at such compensation as the Board may determine. They shall also have the power to employ six temporary assistants during the months of May and June for the purpose of obtaining the list of polls and incidental personal property, compensation not to exceed three dollars per day. Said Assistant Assessors shall be appointed by the Mayor, subject to confirmation by the Board of Aldermen and Common Council.

Sect. 7. This ordinance shall take effect upon its passage. [Approved February 28, 1899.

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AN ORDINANCE ESTABLISHING AN INSPECTION OF WIRES DEPARTMENT.  
AND GOVERNING THE SAME.

Be it ordained, etc., as follows:

Section. 1. An Inspection of Wires Department is hereby established, of which the Inspector of Wires shall be the head.

Sect. 2. The Inspector of Wires shall have supervision of all electric and other wires erected upon, over, or under any street, way, or building, and of every wire within any building where such wire is designed to carry an electric current, and shall have authority over, and shall inspect such wires, their condition, attachments, insulation, supports and appliances; he shall require all persons and corporations owning or operating wires to place and arrange all posts, arms, fixtures, insulating supports, attachments and appliances so as to secure safety to life and property, and shall see that the provisions of \*Chapter 404 of the Acts of 1890 and all other laws, ordinances and regulations relating to electric and other wires are strictly enforced, and shall give prompt notice to any person or corporation owning or operating any such wire, when in his judgment the same is unsafe, or is not placed, kept and maintained in accordance with the requirements of said chapter or the provisions of any other law, ordinance or regulation.

Sect. 3. Said Inspector shall, at least once in each year, inspect all posts supporting electric or other wires upon or over any street or building, and all supports of such wires when attached to buildings, and ascertain if said posts and supports are kept in proper condition and not weak-

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\*Now Chap. 122, Revised Laws.

ened by decay or other causes; and in case any person or corporation owning, leasing, or operating wires shall neglect or refuse to maintain said supports in proper condition for safety, the Inspector shall cause said fixtures and supports to be put in proper condition at the expense of the person or corporation owning or operating the same, after first giving the person or corporation due notice in writing of his intended action.

Sect. 4. It shall be the duty of the Inspector to cause to be removed all dead wires of whatever nature, attached to buildings, if, in his judgment, they are in a dangerous condition or liable to become dangerous to life or property, and he shall notify in writing the person or corporation owning, leasing, or operating such wires of his desire for the removal of any wire, and give them at least ten days in which to comply with the requirements, except in cases in which, in his judgment, there is immediate liability of injury to persons or property from the wire, and in all such cases the notice shall require their removal forthwith. In the event of the refusal of any person or corporation to take proper action, the Inspector may cause the work to be done and the expense to be charged to the owners.

Sect. 5. No person or corporation shall allow any pieces of wire to be left on the surface of any street or sidewalk, or to permit unused fixtures, coils or loose ends of wire to remain attached to any cross arm or post more than twenty-four hours without special permission.

Sect. 6. Every person or corporation operating electric or other wires over or under any street, way or building in the city, upon request of the Inspector shall furnish within fifteen days thereafter accurate lists of the posts or other supports of their wires, the location of conduits and manholes, with information as to location, where, and what service is rendered, whether telegraphic, telephonic, power, or electric lighting, and in the latter case, whether arc or incandescent current is used.

Sect. 7. The said Inspector, upon request, shall also be furnished by any person or corporation operating or owning electric wires with such information as to kind, size, and tested strength of supporting or service wires, the maximum volts used, together with such other information as may be necessary to the faithful and effectual discharge of his duties.

Sect. 8. All wires, appliances and apparatus in the interior of public buildings or on private premises which are intended for the transmission of electricity, either for isolated lighting or power, or to be connected with an outside circuit, shall be made, placed and arranged, and



at all times kept safe to the satisfaction of the Inspector; and said Inspector may at all proper and reasonable times have access to such wires and apparatus.

Sect. 9. In no case shall a current of electricity be connected to any system of wiring or apparatus intended to be used for power or lighting, without permission being first obtained and a written permit granted by the Inspector of Wires; the jurisdiction of the Inspector is intended to include all public and private electrical systems that are now and may hereafter be installed in the City of Lowell.

This ordinance is not intended to govern or call for the inspection of electric bell systems, private or public telephones inside of public or private buildings, or the interior apparatus or boxes of the fire alarm or police system of the city.

Sect. 10. No person or corporation shall change the position or make additions to any wiring system, or install any new work or electrical apparatus without first notifying the Inspector, and he given full opportunity to inspect the same before such work is completed; and when any electric wires designed to carry an electric light or power current are to be concealed, the Inspector must be notified before work is commenced, and he shall give his permission and approval for all such work and connections immediately, unless in his judgment such apparatus or wiring endangers life or property or is not in accordance with the laws and ordinances, or in conformity with the established insurance rules.

Sect. 11. The Inspector shall require that the established rules and regulations of the National Board of Fire Underwriters shall be complied with, both for outside and interior construction.

Sect. 12. It shall be the duty of the Inspector of Wires to carry out any order of the Mayor and Board of Aldermen on any matters referred to him by them, coming under the laws or ordinances, and all questions of right and authority shall be determined by the Mayor and Board of Aldermen upon any appeal or refusal of any person or corporation to comply with the requirements of the Inspector and the laws and ordinances.

Sect. 13. The Inspector of Wires shall keep a record of all inspections and permits in a book provided for the purpose and this book shall be open to inspection (at all reasonable times) by any interested parties.

The Inspector shall make monthly reports of his doings to the Mayor and Board of Aldermen, and an annual report to the City Council.

Sect. 14. Whoever violates or fails to comply with any of the provisions of this ordinance after being duly notified in writing by the Inspector shall forfeit and pay for each offence not less than ten or more than twenty dollars.

Sect. 15. The Inspector of Wires shall be on duty eight hours per day, from 9 A. M. till 5 P. M. each regular working day, and at such other times as cases of emergency may require, and shall receive such compensation as may be determined by the City Council. Said Inspector shall devote his whole time to the service of the city, and shall engage in no other business or calling. [Approved July 26, 1899.]

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AN ORDINANCE TO PROVIDE FOR THE ELECTION OF A CITY PHYSICIAN  
AND DEFINING HIS DUTIES.

Be it ordained, etc., as follows :

Section 1. There shall be chosen immediately after the approval of this ordinance and thereafter annually in the month of March or April, and whenever a vacancy occurs, by concurrent vote of both branches of the City Council, a City Physician, who shall enter upon the duties of his office on the first day of May in each year and until his successor is chosen, unless sooner removed therefrom in the manner provided by law.

Sect. 2. It shall be the duty of the City Physician to attend upon all patients under the care of the city authorities at the City Farm or Police Station ; to make a report annually in April to the City Council covering the service rendered by him during the previous year. In case of an alarm by any infectious or contagious disease to give to either branch of the City Council or any committee thereof all such professional advice and counsel as they may request of him, and generally to perform such other professional services as may reasonably be required of him by the Mayor or the City Council, or the Superintendent of the City Farm.

Sect. 3. Chapter 12 of the Revised Ordinances is hereby repealed. [Approved June 27, 1900.]

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AN ORDINANCE PROHIBITING HEAVY TEAMING AND TRUCKING UPON  
THE SPEEDWAY PORTION OF PAWTUCKET BOULEVARD.

Be it ordained, etc., as follows :

Section 1. The driving or drawing of heavy wagons, carts, trucks or similar vehicles used for purposes of transportation of stone, lumber, coal, ice, express packages, groceries, or other merchandise, requiring for



the transportation of the same a vehicle exceeding in weight a family carriage, buggy, carry-all or similar vehicle used principally for pleasure driving or recreation, is hereby prohibited upon that portion of Pawtucket Boulevard commonly called the Speedway; provided, however, that this prohibition shall not apply to any vehicle used for the purpose of transporting any article or material necessary for the improvement or repair of said speedway, or of any portion of said boulevard, or of the structures connected with the water plant in said boulevard.

Sect. 2. Any person who shall violate any provisions of Section 1 of this ordinance shall be punished by a fine not exceeding twenty dollars for each offense. [Approved July 31, 1900.

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AN ORDINANCE PROVIDING FOR THE PRINTING OF THE UNION LABEL  
ON ALL PRINTING FOR THE CITY OF LOWELL.

Be it ordained, etc., as follows:

Section 1. That all printed matter for the City of Lowell shall hereafter bear the imprint of the Union Label of the Allied Printing Trades Council of Lowell, Mass.

Sect. 2. That in calling for bids for city printing hereafter, the Chief of the Department of Supplies shall make stipulation in accordance with Section 1 of this ordinance.

Sect. 3. This ordinance shall take effect upon its passage. [Approved December 15, 1900.

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AN ORDINANCE ESTABLISHING THE OFFICE OF CLERK OF COMMITTEES.

Be it ordained, etc., as follows:

Section 1. There shall be a Clerk of Committees, to be chosen by concurrent vote of both branches of the City Council as soon as may be after the enactment of this ordinance, who shall enter upon the duties of his office immediately after his election, and hold the same for a period of three years from and after January 1, 1901, and until his successor is elected and qualified. Thereafter the City Council shall, in the month of

January following the expiration of each three-year term, choose a Clerk of Committees, who shall hold office for three years. Such Clerk of Committees shall receive such compensation as the City Council shall determine.

Sect. 2. He shall make a proper record in books kept for the purpose, of all proceedings and transactions, and keep a calendar of all meetings of the committees of which he is clerk. He shall perform such other duties and services, in making estimates and computations, drawing orders and reports, and rendering assistance, as such committees shall require.

Sect. 3. On the request of the Chairman of any committee, the said Clerk of Committees shall authorize the City Messenger to notify all committee members of the time and place of meeting.

Sect. 4. This ordinance shall take effect upon its passage. [Passed December 18, 1900.

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AN ORDINANCE RELATING TO ADVERTISING BILLS AND POSTERS.

Be it ordained, etc., as follows:

Section 1. No person, firm or corporation shall distribute or cause to be distributed in or upon any street, way, common, or place within the limits of the City of Lowell, or post or cause to be posted on any billboard, fence, wall or structure, or shown in windows, any card, circular, bill lithograph, or advertisement, whatsoever, containing any cut photograph, painting or pictorial representation of any kind, for the purpose of advertising or calling attention to any show, circus, play or exhibition, whether given, or to be given, within or without the City of Lowell, without having first submitted the same to the Supt. of Police and obtaining his approval thereof, and of such distributing or posting. And no such card aforesaid, bill or advertisement shall be distributed or posted, as aforesaid, without having attached thereto or printed or pasted thereon, a statement that it has been approved by the Supt. of Police of Lowell, and the date of such approval.

Sect. 2. Whoever violates the provisions of this ordinance, shall, on conviction thereof, be punished by a fine not exceeding twenty dollars for each offence.

Sect. 3. This ordinance shall take effect upon its passage. [Approved December 27, 1901.

(Amended ordinance 1902.)

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED "AN ORDINANCE  
RELATING TO THE CONSTRUCTION OF BUILDINGS."

Be it ordained, etc., as follows :

That an ordinance entitled, "Relating to the construction and repair of buildings," be and the same is hereby amended by striking out the third section thereof and inserting in place thereof the following sections :

Sect. 3. Any person who shall violate any provisions of Section 1 of this ordinance shall be punished by a fine not exceeding twenty dollars (\$20.00) for each offence.

Sect. 4. This ordinance shall take effect upon its passage. [Approved December 27, 1901.

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AN ORDINANCE RELATING TO THE APPROVAL OF BILLS AND CLAIMS  
PAYABLE FROM THE APPROPRIATIONS FOR INCIDENTALS.

Be it ordained, etc., as follows :

Section 1. Every bill and claim against the city which, if correct, would be chargeable to the Appropriation for Incidentals, shall, before being passed by the Committee on Accounts, be submitted to the Mayor, who shall examine the same and endorse thereon a statement that he does or does not object to the payment of the same or of any of the items thereof. He shall then return such bill or claim to the City Auditor or the Committee on Accounts, and if he objects to the payment of said bill or claim, in whole or in part, he shall submit to said auditor or said committee with said bill when so returned, a specific statement in writing signed by him of his objections thereto and his reasons for such objection. [Approved December 27, 1901.

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AN ORDINANCE RELATING TO SHADE TREES ON THE PUBLIC STREETS  
OF THE CITY OF LOWELL.

Be it ordained, etc., as follows :

First. That no person or corporation shall be allowed to remove any shade trees on the streets of the City of Lowell without first filing a petition requesting authority for the removal of the same from the City Council of said city.

Second. All petitions for the removal of shade trees on the streets of Lowell shall be referred to the Aldermanic members of the Committee on Streets of the City of Lowell.

Third. That the Aldermanic members of the Committee on Streets shall constitute and be known as the Committee on Shade Trees.

Fourth. That on the presentation of a petition for the removal of a shade tree as aforesaid and after its reference to the Committee on Shade Trees, they shall cause a notice to be posted on the tree by the Superintendent of Streets or by some person authorized by him, said notice to set forth that a petition for the removal of the tree upon which the notice has been posted has been filed; said notice shall also give the time and place where all persons interested can be heard at a public hearing by said committee. The above notice shall be posted on the tree at least seven days before the time set for the hearing.

Fifth. That the Superintendent of Streets or the Committee on Shade Trees shall not authorize the removal of any shade tree in the City of Lowell except in accordance with the preceding sections. In case where the Superintendent of Streets or the Committee on Shade Trees are satisfied that public necessity by reason of danger to life and property requires the immediate removal of a shade tree, the Superintendent or said Committee may authorize such removal without complying with the conditions named in the preceding sections.

Sixth. Any person or corporation violating this ordinance or any provisions of the same shall be punished for each offence by a fine not exceeding twenty dollars.

Seventh. All ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved December 27, 1901.

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AN ORDINANCE AMENDING AN ORDINANCE ENTITLED "RELATING TO ADVERTISING BILLS AND POSTERS.

Be it ordained, etc., as follows :

That the Ordinance entitled "Relating to advertising bills and posters," passed by the City Council and approved by the Mayor December 27, 1901, be and is hereby amended by striking out all after the enacting clause and inserting in place thereof, the following :—

Section 1. No person, firm or corporation shall distribute, or cause

to be distributed in or upon any street, way, common or place within the limits of the City of Lowell, or post or cause to be posted on any billboard, fence, wall, or structure, or shown in windows, any card, photograph, painting or pictorial representation of any kind for the purpose of advertising or calling attention to any burlesque show, whether given or to be given within or without the limits of the City of Lowell; nor shall any person, firm or corporation distribute or cause to be distributed within the limits of the City of Lowell any pamphlet or circular containing advertisements therein or aphrodisiac cures, without having first submitted the same to the Superintendent of Police and obtaining his approval of such posting and distributing. And no such card, bill, pamphlet, circular or advertisement aforesaid shall be posted or distributed without having attached thereto, or printed or pasted thereon, a statement that it has been approved by the Superintendent of Police of the City of Lowell, and the date of such approval.

Section 2. No person, firm or corporation shall throw, deposit, drop or leave, nor cause to be thrown, deposited, dropped or left in the highway or upon the doorsteps or within the hallway of any dwelling house within the limits of the City of Lowell, any sample of medicinal or toxic substance, either in package or bulk, and shall leave such sample of medicinal or toxic substance in a dwelling house only with the consent and approval and in the possession of an adult occupant.

Section 3. Whoever violates the provisions of this Ordinance shall, on conviction thereof, be punished by a fine not exceeding twenty dollars for each offence.

Section 4. This Ordinance shall take effect upon its passage.  
[Approved 1902.]

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AN ORDINANCE REGULATING THE OPERATION OF MOTOR CYCLES IN THE CITY OF LOWELL.

Be it ordained, etc., as follows:

Section 1. No motor cycle shall be ridden upon the streets, avenues, boulevard, parks or commons of the City of Lowell, unless the motor of such cycle shall be fully covered and provided with mufflers designed expressly to deaden the noise of a motor cycle.

Sect. 2. Any person who violates the provisions of the preceding

section shall be punished by a fine not exceeding ten dollars for each offence.

Sect. 3. This ordinance shall take effect upon its passage.  
(Approved 1902.

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AN ORDINANCE OFFICIALLY DESIGNATING CITY INSTITUTION BUILDINGS  
IN CHELMSFORD STREET AS THE LOWELL CITY HOSPITAL AND  
ALMSHOUSE.

Be it ordained, etc., as follows:

That the City Institution buildings located in Chelmsford Street be designated and hereafter known as The Lowell City Hospital and Alms-house.

This ordinance shall take effect upon its passage. (Approved April 10, 1903.



# Population, Legal Voters, Etc., by Wards.

Wards	Census 1900	Precents.	REGISTERED VOTERS									VOTE FOR		
			Dec. 1901			Nov. 1902			Dec. 1902			MAYOR		
			City Election			State Election			City Election			1902		
			Males	Females	Total	Males	Females	Total	Males	Females	Total	Brady	Howe	Richardson
1	8,248	1	478	25	503	478	23	501	527	23	550	146	273	16
2		497	31	528	454	25	479	488	25	513	149	244	14	
3		399	11	410	381	10	391	392	10	402	142	203	12	
2	10,281		1374	67	1441	1313	58	1371	1407	58	1465	437	720	42
1		344	10	354	277	8	285	305	8	313	136	129	8	
2		431	16	447	404	16	420	429	16	445	238	110	16	
3		498	10	508	506	8	514	537	8	545	293	147	15	
3	10,052		1273	36	1309	1187	32	1219	1271	32	1303	667	386	39
1		595	30	625	509	28	537	538	29	567	217	229	22	
2		636	15	651	626	11	637	653	11	664	84	414	26	
4	9,315	3	637	19	656	628	16	644	639	17	656	59	445	21
		1868	64	1932	1763	55	1818	1830	57	1887	360	1088	69	
1		406	1	497	402	1	463	494	1	495	212	168	22	
5	8,973	2	518	9	527	505	7	512	533	7	540	334	146	8
3		602	0	602	637	0	637	664	0	664	405	172	18	
		1616	10	1626	1604	8	1612	1691	8	1699	951	486	48	
6	10,706	1	389	18	407	361	17	378	407	17	424	191	150	13
2		547	18	565	553	14	567	588	14	602	304	178	28	
3		440	7	447	438	5	443	455	5	460	248	138	15	
7	18,490		1376	43	1419	1352	36	1388	1450	36	1486	743	466	56
1		710	79	789	724	72	796	735	72	807	112	495	15	
2		524	21	545	512	19	531	549	19	568	173	268	14	
8	9,655	3	599	22	621	591	21	612	623	21	644	228	270	15
		1833	122	1955	1827	112	1939	1887	112	1999	513	1033	44	
1		640	13	653	631	12	643	659	12	671	151	412	7	
9	8,709	2	729	83	812	731	74	805	750	74	824	190	436	20
3		668	26	694	702	25	727	723	25	748	158	422	27	
		2037	122	2159	2064	111	2175	2132	111	2243	499	1270	54	
10	9,655	1	720	13	733	719	10	729	733	10	743	72	488	17
2		787	10	797	804	6	810	816	6	822	86	505	49	
3		644	15	659	659	11	670	683	11	694	257	293	22	
11	8,709		2151	38	2189	2182	27	2209	2232	27	2259	415	1286	88
1		485	65	550	504	56	560	512	57	569	147	279	15	
2		601	51	652	620	46	666	623	47	670	169	348	12	
12	94,969	3	764	10	774	830	5	835	863	5	868	313	420	38
		1850	126	1976	1954	107	2061	1998	109	2107	629	1047	65	
		15,378	628	16,005	15,246	546	15,792	15,898	550	16,448	5,214	7,782	505	

# POPULATION OF THE CITY OF LOWELL.

Year	Population.	Year	Population..	Year	Population.	Year	Population.
1828	3,532	1840	20,981	1865	30,990	1890	77,696
1830	6,477	1844	25,163	1866	36,878	1895	84,359
1832	10,254	1846	29,127	1870	40,928	1900	94,969
1833	12,963	1850	33,383	1875	49,688	... ..	*
1836	17,633	1855	37,554	1880	59,485	.....	.....
1837	18,010	1860	36,827	1885	64,107	.....	.....

\* Population estimated for 1903 by the State Board of Health, 101,959.

# CITY OFFICERS

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## WHEN ELECTED OR APPOINTED

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“All officers elected or appointed by the City Council, or either branch thereof, shall hold their offices according to the tenure of the same and until their successors are chosen and qualified, unless otherwise provided for.”

### AGENT OF THE BOARD OF HEALTH.

Appointed by the Board of Health under civil service rules.

### ASSESSORS OF TAXES.

One chosen in the month of January or February by concurrent vote of the City Council for the term of three years. [Ordinances, Chapter 3, Section 1.

### ASSISTANT ASSESSORS.

Appointed by the Mayor in March or April, for May and June, subject to confirmation by the City Council. [Ordinance approved February 28, 1898.

### ASSISTANT ENGINEERS OF THE FIRE DEPARTMENT.

Appointed by the Mayor and Aldermen in March or April, the first assistant for the term of three years, the others for one year commencing May first. Ordinance approved November 27, 1896.

### AUDITOR OF ACCOUNTS.

Chosen by concurrent vote of the City Council in January or February, for one year, commencing the first Monday in April. [Ordinances, Chapter 2, Section 1.

### ASSISTANT CITY CLERK.

Appointed by the City Clerk, subject to confirmation by the Board of Aldermen. [Ordinances, Chapter 8, Section 2.

**BOARD OF EXAMINERS OF PLUMBERS.**

One member appointed by the Board of Health for the term of one year, commencing May first. The chairman of the board of health and the Superintendent of Public Buildings are members of the Board, ex-officio. [Ordinances, Chapter 28, Section 6.]

**BOARD OF HEALTH.**

One member appointed by the Mayor and Aldermen in January for the term of three years, commencing the first Monday in February. [Revised Laws, Chapter 75, Sect. 9.]

**BOARD OF PARK COMMISSIONERS.**

One member appointed annually by the Mayor with the approval of the City Council for a term of five years from first Monday in May. [Revised Laws, Chapter 28.]

**BOARD OF POLICE.**

One member appointed by the Mayor every two years for the term of six years, commencing the first Monday in June. [Chapter 428, Acts of 1894. Chapter 187, Acts of 1895.]

**CHAIRMAN OF THE BOARD OF ALDERMEN.**

Chosen by the Board of Aldermen on the first Monday in January, or as soon thereafter as may be. [City Charter, Section 12.]

**CHIEF ENGINEER OF THE FIRE DEPARTMENT.**

Chosen by concurrent vote of the City Council in March or April for the term of three years, commencing May first. [Chapter 95, Section 2, Acts of 1897. Ordinance approved November 27, 1896.]

**CITY CLERK.**

Chosen annually by the City Council in convention, as soon after organization as convenient. [City Charter, Section 17.]

**CITY MESSENGER.**

Chosen by concurrent vote of the City Council in January for the term of one year, commencing the first Monday in February. [Ordinances, Chapter 10, Section 1.]

**CITY PHYSICIAN.**

Chosen annually in March or April by concurrent vote of the City Council for one year, commencing May first. Ordinances, 1900.

**CITY SOLICITOR.**

Chosen by concurrent vote of the City Council in January or February for the term of one year, commencing March first. [Ordinances, Chapter 11, Section 1.

**CITY TREASURER AND COLLECTOR OF TAXES.**

Chosen annually by the City Council in convention as soon after organization as convenient, for the term of one year, commencing April first. [City Charter, Section 17. Ordinances, Chapter 9, Section 1.

**CIVIL ENGINEER FOR THE CITY.**

Chosen by concurrent vote of the City Council in January or February for a term of one year, commencing April first. [Ordinances, Chapter 13, Section 1.

**CIVIL SERVICE EXAMINERS.**

Appointed by the State Civil Service Commissioners.

**CLERK OF THE COMMON COUNCIL.**

Chosen by the Common Council on the first Monday in January, or as soon thereafter as may be. [City Charter, Section 14.

**CLERKS EMPLOYED IN DEPARTMENTS.**

Appointed by heads of departments under civil service rules. [Chapter 415, Section 5, Acts of 1896.

**CLERK OF THE WATER BOARD.**

Chosen by the Water Board in June for the term of one year. Ordinances, Chapter 45, Section 2.

**COMMISSIONERS OF SINKING FUNDS.**

One chosen in December by concurrent vote of the City Council for the term of three years, commencing January first. [Revised Laws, Chapter 27, Section 14.

**COMMITTEE ON ACCOUNTS. (Three.)**

On the first Monday in January, or as soon thereafter as may be, one member chosen by the Board of Aldermen from that Board, and two members of the Common Council by said Council. Chapter 415, Section 10, Acts of 1896.

**COMMITTEE ON FINANCE. (Five.)**

On the first Monday in January, or as soon thereafter as may be, one member of the Board of Aldermen, to be elected by that Board, and three members of the Common Council, to be elected by said Council. The Mayor is a member ex-officio. (Ordinances, Chapter 1, Section 2.

**CONSTABLES.**

Appointed by the Mayor and Aldermen in January or February for the term of one year. [City Charter, Section 19, Ordinances, Chapter 41, Section 2.

**ELECTION OFFICERS.**

Appointed by the Mayor and Aldermen in September, or as soon thereafter as may be, for the term of one year, commencing November first. [Revised Laws, Chapter 11, Section 171.

**FENCE VIEWERS.**

Nominated by the Mayor in January or February and chosen by concurrent vote, commencing in the Board of Aldermen, for the term of one year. [Ordinances, Chapter 41, Section 1.

**FIELD DRIVERS.**

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. [Ordinances, Chapter 41, Section 1.

**FIREMEN.**

Appointed by the Chief Engineer on recommendation of the Board of Assistant Engineers, under civil service rules. [Chapter 178, Acts of 1898.



**FISH WARDEN.**

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Revised Laws, Chapter 91, Section 54.]

**HEALTH COMMISSIONER.**

Nominated by the mayor in January or February and chosen by concurrent vote of the City Council for the term of one year. [Ordinances, Chapter 41, Section 1.]

**INSPECTOR OF ANIMALS.**

Appointed by the Mayor and Aldermen in March, subject to the approval of the State Board of Cattle Commissioners, for the term of one year, commencing April first.

**INSPECTOR OF BALE OR BUNDLE HAY.**

Appointed by the Board of Aldermen in January or February for the term of one year. [Ordinances, Chapter 21, Section 1.]

**INSPECTORS OF BOILERS.**

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Revised Laws, Chapter 105, Section 7.]

**INSPECTORS OF THE HEALTH DEPARTMENT.**

Appointed by the Board of Health under civil service rules.

**INSPECTORS OF PETROLEUM OILS.**

Appointed by the Mayor and Aldermen, upon request of five or more citizens. [Revised Laws, Chapter 102, Section 109.]

**INSPECTOR OF MILK, VINEGAR AND OLEOMARGARINE.**

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 41, Section 2.]

**INSPECTORS OF PLUMBING.**

Appointed by the Board of Health. [Ordinances, Chapter 28, Section 8.]

**INSPECTORS OF PROVISIONS.**

Appointed by the Board of Health.

**INSPECTORS WATER DEPARTMENT.**

Appointed by the Water Board under civil service rules.

## INSPECTOR OF WIRES.

Appointed by the Mayor and Aldermen in January for the term of three years, commencing February first. Ordinances, 1898.

## LIBRARIAN OF THE CITY LIBRARY.

Chosen by the Trustees of the City Library. [Chapter 231, Section 5, Acts of 1888.

## MAYOR'S CLERK.

Appointed by the Mayor. [Chapter 415, Section 4, Acts of 1896.

## MEASURERS OF GRAIN.

Appointed by the Mayor and Aldermen in January or February for the term of one year. [Ordinances, Chapter 41, Section 2.

## MEASURERS OF UPPER LEATHER.

Appointed by the Mayor and Aldermen, in April, for the term of one year. (Ordinances, Chapter 41, Section 2.

## MEASURERS OF WOOD AND BARK.

Appointed by the Mayor and Aldermen in January or February for the term of one year. (Ordinances, Chapter 46, Section 2.

## MEASURERS OF WOOD AND BARK BROUGHT BY WATER OR RAILROAD CARS INTO THE CITY.

Appointed by the Mayor and Aldermen in January or February for the term of one year. (Ordinances, Chapter 46, Section 1.

## POLICE OFFICERS.

Appointed by the Board of Police under civil service rules.

## POUND KEEPER.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. (Ordinances, Chapter 41, Section 1.

## PRESIDENT OF THE COMMON COUNCIL.

Chosen by the Common Council on the first Monday in January, or as soon thereafter as may be. (City Charter, Section 14.

## REGISTRARS OF VOTERS.

One member appointed by the Mayor and Aldermen in March or April for the term of three years, commencing May first. The City Clerk is a member ex-officio. (Revised Laws, Chapter 11, Section 25.

## SEALER OF WEIGHTS AND MEASURES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. (Ordinances, Chapter 41, Section 2.

## SECRETARY OF THE OVERSEERS OF THE POOR.

Appointed by the Overseers of the Poor.

## SUPERINTENDENT OF THE CITY FARM.

Appointed by the Overseers of the Poor.

## SUPERINTENDENT OF THE CITY SCALES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. (Ordinances, Chapter 21, Section 1.

## SUPERINTENDENT OF COMMONS.

Chosen by concurrent vote of the City Council in January for the term of one year. (Ordinance approved June 18, 1897.

## SUPERINTENDENT OF PUBLIC BUILDINGS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. (Ordinances, Chapter 5, Section 1.

## SUPERINTENDENT OF SCHOOLS.

Chosen by the School Committee in July or August for the term of one year. (Ordinances, Chapter 40, Section 1.

## SUPERINTENDENT OF STATE AID AND ASSISTANT.

Appointed by the Mayor and Aldermen in January for the term of one year, commencing February first. (Ordinances approved September 27, 1898.

## SUPERINTENDENT OF STREETS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. (Ordinances, Chapter 39, Section 1.

## SUPERINTENDENT OF WATER WORKS.

Chosen by the Water Board in March for the term of one year, commencing April first. (Ordinances, Chapter 45, Section 2.

## SURVEYORS OF HIGHWAYS.

Chosen by concurrent vote of the City Council in January or February for the term of one year, (City Charter, Section 17. Ordinances, Chapter 39, Section 1.

## SURVEYORS OF LUMBER.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. (Ordinances, Chapter 39, Section 1.

## SURVEYORS OF PLASTERING, BRICK OR STONE WORK AND PAINTING.

Appointed by the Mayor and Aldermen in January or February for the term of one year. (Ordinances, Chapter 41, Section 2.

## TRUANT COMMISSIONERS.

Appointed by the School Committee. (Revised Laws, Chapter 46, Section 12.

## TRUSTEES OF THE PUBLIC LIBRARY.

One member appointed in December by the Mayor and Aldermen for the term of five years, commencing the second Monday in January. The Mayor is a member ex-officio. Ordinances, Chapter 14, Section 2.

## TRUSTEES OF PUBLIC BURIAL GROUNDS. (Three.)

One member appointed by the Mayor and Aldermen in December for the term of two years, commencing the first Monday in January. The Mayor is a member ex-officio. (Chapter 337, Section 2, Acts of 1891.

## WATER BOARD.

One member chosen in January or February by concurrent vote of

the City Council for the term of four years, commencing the second Monday in March. (Ordinances, Chapter 45, Section 1.

#### WEIGHERS OF COAL.

Appointed by the Mayor and Aldermen in January or February for the term of one year. (Ordinances, Chapter 41, Section 2.

#### WEIGHERS OF HAY AND OTHER ARTICLES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. (Ordinances, Chapter 21, Section 1.





CATALOGUE

OF THE

# Government of the City of Lowell

IN

Chronological Order of Service

From Its Institution in 1836, to 1902, Inclusive.



**1836.****MAYOR:****ELISHA BARTLETT.****ALDERMEN:**

William Austin, resigned Oct. 10.	Benjamin Walker.
Joseph Tapley, elected November.	Oliver M. Whipple.
Seth Ames.	Alexander Wright.
Aaron Mansur.	

SAMUEL A. COBURN, City Clerk.

**COMMON COUNCIL:**

John Clark, President.	Stephen Mansur.
Henry J. Baxter.	John Mixer.
Jonathan Bowers.	Thomas Nesmith.
George Brownell.	David Nourse.
James Cook.	Thomas Ordway.
David Dana.	James Russell.
Erastus Douglass.	John A. Savels.
Josiah B. French.	Sidney Spalding.
Cyril French.	Weld Spalding.
Samuel Garland.	Jonathan Tyler.
Horatio W. Hastings.	Tappan Wentworth.
Horace Howard.	William Wyman.

GEORGE WOODWARD, Clerk, died. ALBERT LOCKE, elected.

**1837.****MAYOR:****ELISHA BARTLETT, † '36.****ALDERMEN:**

Seth Ames, *'36.	Joseph G. Kittredge.
John Aiken.	Joshua Swan.
Seth Chellis	Alexander Wright, *'36.

SAMUEL A. COBURN, City Clerk.

**COMMON COUNCIL:**

<b>WARD 1.</b>	<b>WARD 4.</b>
Joshua Abbott.	William Baker.
James K. Fellows.	Elijha M. Read.
Jesse Phelps.	Charles H. Wilder.
Walter Wright.	William W. Wyman.
<b>WARD 2.</b>	<b>WARD 5.</b>
William Fiske.	George Brownell, '36.
Thomas Nesmith, '36.	Osgood Dane.
Josiah Osgood.	James Russell, '36.
Joseph Tyler.	Tappan Wentworth, '36.
<b>WARD 3.</b>	<b>WARD 6.</b>
Joseph M. Dodge.	Andrew Bird.
Elisha Huntington, President.	Benjamin H. Gage.
William North.	Jona. T. P. Hunt.
Joseph Tapley.	Abram Tilton.

ALBERT LOCKE, Clerk.

The figures without other marks indicate membership of the Common Council those years. † Mayor that year. \* Alderman that year. ‡ President of the Common Council that year.

## MUNICIPAL REGISTER

**1838****MAYOR:****LUTHER LAWRENCE.****ALDERMEN:**

Benjamin F. French.  
Charles L. Tilden.  
Oliver M. Whipple, \*'36.

George H. Carleton.  
George Brownell, '36, '37.  
Seth Chellis, \*'37.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

Jesse Phelps, '37.  
Walter Wright, '37.  
Eliphalet Brown.  
Perez Fuller.

**WARD 2.**

William Fiske, '37.  
Aaron H. Sherman.  
William Upham.  
Henry J. Baxter, '36.

**WARD 3.**

Thomas Hopkinson.  
Elisha Huntington, † '37, President.  
Horace Howard, '36.  
John Mixer, '36.

**WARD 4.**

David Dana, '36.  
Perley Hale.  
Benjamin Walker, \*'36.  
William Baker, '37.

**WARD 5.**

Garret J. Bradt.  
Benjamin Wilde.  
Erastus Douglass, '36.  
Rufus Paul.

**WARD 6.**

Eli Cooper.  
Thomas L. Randlett.  
James L. Foot.  
Calvin Goodspeed.

**ALBERT LOCKE, Clerk.****1839.****MAYOR:****LUTHER LAWRENCE.** —[Died in April.]**ELISHA HUNTINGTON, † '37, † '38.****ALDERMEN:**

Benjamin F. French, \*'38.  
John O. Green.  
Charles L. Tilden, \*'38.

George H. Carleton, \*'38.  
John Clark, † '36.  
Oliver M. Whipple, \* '36, \*'38.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

Walter Wright, '37, '38.  
Harlin Pillsbury.  
Eliphalet Brown, '38.  
Forrest Eaton.

**WARD 2.**

Jonathan Tyler, '36.  
John Nesmith.  
Henry J. Baxter, '36, '38.  
Jefferson Bancroft.

**WARD 3.**

Thomas Hopkinson, '38, President.  
Jacob Robbins.  
John G. Locke.

**WARD 4.**

Benjamin Walker, \*'36, '38.  
Samuel Horn.  
Stephen Carleton.  
Stephen Mansur, '36.

**WARD 5.**

Tappan Wentworth, '36, '37.  
Lewis McIntire, died Feb., 1840.  
Benjamin Wilde, '38.  
Garret J. Bradt, '38.

**WARD 6.**

Thomas L. Randlett, '38.  
Joseph S. Holt.  
John L. Fitts.  
Daniel Knapp.

**ALBERT LOCKE, Clerk.**

**1840.****MAYOR:****ELISHA HUNTINGTON**, † '37, † '38, † '39.**ALDERMEN:**

Jonathan Tyler, '36, '39.  
 John R. Adams.  
 Joseph Bedlow.

Harlin Pillsbury, '39.  
 Seth Ames, \*'36, \*'37.  
 Stephen Mansur, '36, '39.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39.  
 Sylvanus Adams.  
 Henry Patch.  
 R. M. Hutchinson.

**WARD 2.**

Jefferson Bancroft, '39.  
 John Nesmith, '39.  
 Joseph G. Kittredge, \*'37.  
 Josiah Osgood, '37.

**WARD 3.**

Pelham W. Warren, President.  
 Abner W. Buttrick.  
 Asa Hall.  
 Samuel Burbank.

**WARD 4.**

Ferdinand Rodliff.  
 Ethan Burnap.  
 Edward F. Watson.  
 B. Walker, \*'36, '38, '39, died Sept.

**WARD 5.**

Tappan Wentworth, '36, '37, '39.  
 Samuel W. Brown.  
 John J. Crane.  
 George Dane.

**WARD 6.**

Daniel Knapp, '39.  
 George L. Fitts, '39.  
 Joseph Battles.  
 Joshua Converse.

**ALBERT LOCKE**, Clerk, died October. **JOHN G. LOCKE**, elected October.**1841.****MAYOR:****ELISHA HUNTINGTON**, † '37, † '38, † '39, † '40.**ALDERMEN:**

Seth Chellis, \*'37, '38.  
 Jefferson Bancroft, '39, '40.  
 Cyril French, '36.

George H. Carleton, \*'38, \*'39.  
 John R. Adams, \*'40.  
 John Aiken, \*'37.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Henry Patch, '40.  
 George Bragdon.  
 John W. Holland.  
 Arnold Welch.

**WARD 2.**

William Fiske, '37, '38.  
 Erasmus D. Leavitt.  
 Jonathan White.  
 Nathaniel Wilson.

**WARD 3.**

Samuel Burbank, '40.  
 Nathaniel Critchett.  
 Royal Southwick.  
 Edward Winslow.

**WARD 4.**

Ethan Burnap, '40.  
 William Livingston.  
 John Morrison.  
 Edward F. Watson, '40.

**WARD 5.**

Tappan Wentworth, '36, '37, '39, '40, Pres  
 Samuel W. Brown, '40.  
 John J. Crane, '40.  
 Phineas Whiting.

**WARD 6.**

Francis H. Bowers.  
 Isaac H. Cooper.  
 William Potter.  
 John Smith.

**JOHN G. LOCKE**, Clerk.

MUNICIPAL REGISTER  
**1842.**

**MAYOR:**

**NATHANIEL WRIGHT.**

**ALDERMEN:**

Nathaniel Thurston.  
Jefferson Bancroft, '39, '40, '41.  
Cyril French, '36, \*'41.

William Livingston, '41.  
Ithamar A. Beard.  
John W. Graves.

THOMAS ORDWAY, City Clerk.

**COMMON COUNCIL:**

**WARD 1.**

Jeremiah P. Jewett.  
John Hadley.  
James Townsend.  
Edward J. Payne.

**WARD 2**

John Nesmith, '39, '40.  
Erasmus D. Leavit, '41.  
Joseph W. Mansur, President.  
James Hopkins.

**WARD 3.**

Nathaniel Critchett, '41.  
Ira Spalding.  
John Mead.  
Asa W. Willoughby.

**WARD 4.**

John Morrison, '41.  
William Carlton.  
Oliver March.  
Josiah B. French, '36.

**WARD 5.**

James Patterson.  
Isaac Appleton.  
Josiah Seavey.  
Roswell Douglass.

**WARD 6.**

James Russell, '36, '37.  
Jonathan Kendall.  
Varnum A. Shed.  
Isaac N. Fitts.

JOHN G. LOCKE, Clerk.

**1843.**

**MAYOR:**

**NATHANIEL WRIGHT, †'42.**

**ALDERMEN:**

Harlin Pillsbury, '39, \*'40, res'd June.  
Henry C. Johnson.  
Cyril French, '36 \*'41, \*'42.

S. Spalding, '36, res'd in June.  
Joseph Griffin.  
Charles L. Tilden, \*'38, '39.

THOMAS ORDWAY, City Clerk.

**COMMON COUNCIL:**

**WARD 1.**

Daniel Bixby.  
Edward J. Payne, '42.  
Hugh Commiskey.  
Walter Wright, '37, '38, '39.

**WARD 2.**

Henry J. Baxter, '36, '38, '39.  
John P. Simonds.  
Pliny Lawton.  
Ben Osgood.

**WARD 3.**

John Mead, '42.  
Willard Brown.  
Ira Spalding, '42.  
Benjamin J. Gerrish.

**WARD 4.**

Otis Allen.  
Alfred Gilman.  
Oliver March, '42, President.  
William Carlton, '42.

**WARD 5.**

James Patterson, '42.  
David Bradt.  
John L. Tripp.  
Benjamin F. Holden.

**WARD 6.**

John B. McAlvin.  
Cyrus Battles.  
Sewall G. Mack.  
Charles F. Mitchell.

JOHN G. LOCKE, Clerk.



**1844.****MAYOR:****ELISHA HUNTINGTON**, †'37, †'38, †'39, †'40, †'41.**ALDERMEN:**

Henry Smith.  
 Selwin Bancroft,  
 O. M. Whipple, \*'36, \*'38, \*'39.

Edward F. Watson, '40, '41.  
 Joseph Griffin, \*'43.  
 John Wright.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39, '40.  
 Gilman N. Nichols.  
 Hugh Cummiskey, '43.  
 David Healey.

**WARD 2.**

John P. Simonds, '43.  
 Ben Osgood, '43.  
 Amos Merriam.  
 John Clark, †'36, \*'39, President.

**WARD 3.**

Charles B. Coburn.  
 George Choate.  
 Isaac Scripture.  
 William C. Gray.

**WARD 4.**

Asa Wetherbee.  
 Abner W. Buttrick, '40.  
 Horatio G. F. Corliss.  
 Charles H. Wilder, '37.

**WARD 5.**

John L. Tripp, '43.  
 David Bradt, '43.  
 John Wright.  
 Nathaniel Wright, Jr.

**WARD 6.**

Sewall G. Mack, '43.  
 James Russell, '36, '37, '42.  
 Jonathan Kendall, '42.  
 Gilman Gale.

**JOHN G. LOCKE**, Clerk.**1845.****MAYOR:****ELISHA HUNTINGTON**, †'37, †'38, †'39, †'40, †'41, †'44.**ALDERMEN:**

Henry Smith, \*'44.  
 Selwin Bancroft, \*'44.  
 O. M. Whipple, \*'36, \*'38, \*'39, \*'44.

Edward F. Watson, '40, '41, '44.  
 John C. Dalton.  
 Daniel Knapp, '39.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39.  
 Danforth P. Brigham.  
 Jonathan Adams.  
 Willard C. Welch.

**WARD 2.**

John P. Simonds, '43, '44.  
 Daniel Balch.  
 William Brown.  
 Daniel S. Richardson, President.

**WARD 3.**

Isaac Scripture, '44.  
 William C. Gray, '44.  
 George Choate, '44.  
 Hapgood Wright.

**WARD 4.**

Abner, W. Buttrick, '40 '44.  
 Asa Wetherbee, '44.  
 Charles H. Wilder, '37, '44.  
 Josiah Sawtell.

**WARD 5.**

Nathaniel Wright, Jr., '44.  
 Amos Hyde.  
 Edward Sherman.  
 James Fenno.

**WARD 6**

Gilman Gale, '44.  
 John B. McAlvin, '43.  
 Samuel Fay, Jr.  
 Lorenzo P. Wright.

**JOHN G. LOCKE**, Clerk.

## MUNICIPAL REGISTER

**1846.****MAYOR:****JEFFERSON BANCROFT, '39, '40, \*'41, \*'42.****ALDERMEN:**

Henry Smith, \*'44, \*'45.  
 Selwin Bancroft, \*'44, \*'45.  
 William C. Gray, '44, '45.  
 Joseph Butterfield.

John C. Dalton, '45.  
 D. Knapp, '39, \*'45, resigned in July  
 Isaac Corper, '41, elected in August.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39, '45.  
 Danforth P. Brigham, '45.  
 Willard C. Welch, '45.  
 Thomas S. Hutchinson.

**WARD 2.**

Daniel Balch, '45.  
 William Brown, 45  
 Daniel S. Richardson, † '45, President.  
 Zadock Rogers.

**WARD 3.**

Hapgood Wright, '45.  
 Isaac Farrington.  
 Joel Powers.  
 Franklin Mead.

**WARD 4.**

Josiah Sawtell, '45.  
 Solon Stevens.  
 David J. Moody.  
 William Fletcher.

**WARD 5.**

Amos Hyde, '45.  
 Horatio G. F. Corliss, '44.  
 Jonathan Bowers, '36.  
 Charles M. Short.

**WARD 6.**

Lorenzo P. Wright, '45.  
 John L. Fitts, '39, '40.  
 Lewis Packard.  
 Columbus J. Hubbard.

**JOHN G. LOCKE, Clerk.****1847.****MAYOR:****JEFFERSON BANCROFT, '39, '40, \*'41, \*'42, † '46.****ALDERMEN:**

George Bragdon.  
 Joseph Butterfield, \*'46.  
 Linus Child.  
 James Fenno, '45.

Elisha Huntington, † '37, † '38, † '39, † '40,  
 † '41, † '44, † '45.  
 Sewall G. Mack, '43, '44.  
 Stephen Mansur, '36, '39, \*'40.  
 Josiah Sawtell, '45, '46.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

William Conihe.  
 James C. Crombie.  
 David S. Bachelder,  
 Jesse Huse.

**WARD 2.**

Samuel W. Brown, '40, '41.  
 Hannibal Powers.  
 William Newman.  
 Otis L. Allen.

**WARD 3.**

Joel Powers, '46.  
 Franklin Mead, '46.  
 Isaac Farrington, '46.  
 Samuel G. Davis.

**WARD 4.**

Joel Adams, President.  
 Horatio Fletcher.  
 Solon Stevens, '46.  
 Stephen A. Coburn.

**WARD 5.**

Ignatius Tyler.  
 Edward C. Johnson.  
 Elihu Gates.  
 Charles M. Short, '46.

**WARD 6.**

Thomas Wentworth.  
 Isaac N. Parker.  
 John R. Southwick.  
 Isaiah Morse.

**JOHN G. LOCKE, Clerk.**

**1848.****MAYOR:****JEFFERSON BANCROFT**, '39, '40, \*'41, \*'42, †'46, †'47.**ALDERMEN:**

David Dana, '36, '38.

Erastus Douglass, '36, '38.

Jacob Graves, resigned in June.

William Newman, '47.

Gilman N. Nichols, '39, '45, '46.

Daniel S. Richardson, †'45, †'46.

Josiah Sawtell, '45, '46, \*'47.

O. M. Whipple, \*'36, \*'38, \*'39, \*'45.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Conihe, '47.

James C. Crombie, '47.

Jesse Huse, '47.

Gerry Wilson.

**WARD 2.**

Otis L. Allen, '47.

William H. Flagg.

John Nesmith, '39, '40, '42.

Hannibal Powers, '47.

**WARD 3.**

Alfred Gilman, '43.

Thomas Hopkinson, '38, '39, President.

Ransom Reed.

Nathaniel Critchett, '41, '42.

**WARD 4.**

John Avery.

Otis Allen, '43.

Abiel Rolfe.

Horace Howard, '36, '38.

**WARD 5.**

Ignatius Tyler, '47.

Elihu Gates, '47.

Edward C. Johnson, '47.

Charles M. Short, '46, '47.

**WARD 6.**

Thomas Wentworth, '47.

Isaac N. Parker, '47.

Jeremiah M. Currier.

Horace Parmenter.

**JOHN G. LOCKE**, Clerk.**1849.****MAYOR:****JOSIAH B. FRENCH**, '36, '42.**ALDERMEN:**

James B. Francis.

Cyril French, '36, \*'41, \*'42, \*'43.

James H. B. Ayer.

Daniel D. Crombie.

Daniel Carter.

George Brownell, '36, '37, \*'38.

Artemas L. Brooks.

Joseph Bedlow, \*'40.

**THOMAS ORDWAY**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Jesse Huse, '47, '48, resigned in February.

William A. Richardson, elected in March.

Gerry Wilson, '48.

John W. Smith.

Alfred S. Saunders.

**WARD 2.**

William H. Flagg, '48.

Ivers Taylor.

Isaac S. Morse, resigned.

Ambrose Lawrence.

**WARD 3.**

Alfred Gilman, '43, '48.

Elisha Davis.

James Dinsmoor.

Andrew C. Wheelock.

**WARD 4.**

Nathaniel B. Favor.

Caleb Crosby.

Ezekiel Wright.

Waldo A. Fisher.

**WARD 5.**

Maynard Bragg.

Joshua Decatur.

Abram T. Melvin.

W. W. Morse.

**WARD 6.**

William Lamson, Jr.

Jeremiah M. Currier, '48.

George S. Wright.

John Aiken, \*'37, \*'41, President.

**GEORGE A. BUTTERFELD**, Clerk.

## MUNICIPAL REGISTER

**1850.****MAYOR:****JOSIAH B. FRENCH, '36, '42, † '49.****ALDERMEN:**

James H. B. Ayer, \*'49.  
 Joseph Bedlow, \*'40, \*'49.  
 Daniel D. Crombie, \*'49.  
 James B. Francis, \*'49.

Philip Hardy.  
 John Mixer, '36, '38.  
 Josiah G. Peabody.  
 James Townsend, '42.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

John W. Smith, '49.  
 Daniel R. Kimball.  
 James Watson.  
 Jonathan Smothers.

**WARD 2.**

Ivers Taylor, '49, President.  
 George Gardner.  
 Samuel Lawrence, 2d.  
 Samuel J. Varney.

**WARD 3.**

Jonathan Page.  
 John Tripp.  
 Fordyce Coburn.  
 Joshua Merrill.

**WARD 4.**

Abner W. Buttrick, '40, '44, '45.  
 Caleb Crosby, '49.  
 Benjamin Goddard.  
 Nathaniel B. Favor, '49.

**WARD 5.**

George P. Elliot.  
 William Fiske, '37, '38, '41.  
 George W. Worthen.  
 Maynard Bragg, '49.

**WARD 6.**

Albert Mallard.  
 Stephen P. Sargent.  
 George S. Wright, '49.  
 Wm. Lampson, Jr., '49, resigned in May.

**GEO. A. BUTTERFIELD, Clerk, res'd May. WM. LAMSON, JR., elected May.****1851.****MAYOR:****JAMES H. B. AYER, \*'49, \*'50.****ALDERMEN:**

William Fiske, '37, '38, '41, '50.  
 Ambrose Lawrence, '49.  
 James Townsend, '42, \*'50.  
 Philip Hardy, \*'50.

William North, '37.  
 Abiel Rolfe, '48.  
 Lucius A. Cutler.  
 Joshua Converse, 40.

**THOMAS ORDWAY, City Clerk.****COMMON COUNCIL:****WARD 1.**

James Watson, '50.  
 Jonathan Smothers, '50.  
 Charles B. Coburn, '44.  
 Stephen Moar.

**WARD 2.**

Linus Child, \*'47.  
 George Gardner, '50, President.  
 Samuel J. Varney, '50.  
 Zachariah B. Caverly.

**WARD 3.**

Fordyce Coburn, '50.  
 William Twichell.  
 Darius C. Brown.  
 Benjamin C. Sargeant.

**WARD 4.**

Benjamin Goddard, '50.  
 Richard Dennis.  
 Holland Streeter.  
 Solomon D. Emerson.

**WARD 5.**

George P. Elliot, '50.  
 Edward Fifield.  
 John N. Ford.  
 Theodore H. Sweetser.

**WARD 6.**

George W. Worthen, '50.  
 George W. Jones, died in September.  
 Stephen P. Sargent, '50.  
 Albert Mallard, '50.

**WILLIAM LAMSON, JR., Clerk,**

MUNICIPAL REGISTER  
1852.

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**MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, \*'47.

**ALDERMEN:**

Joseph Bedlow, \*'40, \*'49, \*'50.  
Joseph M. Bullens.  
Samuel Burbank, '40, '41.  
Joseph B. V. Coburn.

Wm. Fiske, '37, '38, '41, '50, \*'51.  
William North, '37, \*'51.  
Alpha Stevens.  
Samuel J. Varney, '50, '51.

THOMAS ORDWAY, City Clerk.

**COMMON COUNCIL:**

**WARD 1.**

Rufus Rogers.  
John C. Smith.  
Jeremiah Clark.  
Paul Hill.

**WARD 2.**

Paul Perkins.  
Milton Bonney.  
William Hovey.  
Zachariah B. Caverly, '51.

**WARD 3.**

Darius C. Brown, '51.  
William Twichell, '51.  
Benjamin C. Sargeant, '51, President.  
Michael B. Caswell.

**WARD 4.**

Holland Streeter, '51.  
Elbridge Livingston.  
Abram French.  
Willard Minot.

**WARD 5.**

Edward Fifield, '51.  
Phineas Whiting, '41.  
George W. Patterson.  
Jonathan Kendall, '42, '44.

**WARD 6.**

Leonard W. Jaquith.  
Seth Pooler.  
Caleb G. Weaver.  
William C. Parker.

WILLIAM LAMSON, JR., Clerk,

1853.

**MAYOR:**

SEWALL G. MACK, '43, '44, \*'47.

**ALDERMEN:**

Elisha Huntington, †'37, †'38, †'39, †'40,  
†'41, †'44, †'45, \*'47, †'52.  
Samuel K. Hutchinson.  
Stephen Mansur, '36, '39, \*'40, \*'47.  
Joseph B. V. Coburn, \*'52.

Ira Spalding, '42, '43.  
Joseph M. Bullens, \*'52.  
Alpha Stevens, \*'52.  
Joseph White.

THOMAS ORDWAY, City Clerk.

**COMMON COUNCIL:**

**WARD 1.**

Rufus Rogers, '52.  
John C. Smith, '52.  
Marcus A. Thomas.  
James Cook, '36.

**WARD 2.**

Paul Perkins, '52.  
Milton Bonney, '52.  
George G. Bumpus.  
George W. Stanley.

**WARD 3.**

Michael B. Caswell, '52.  
Calvin Philbrick.  
Leonard Brown.  
Henry H. Wilder.

**WARD 4.**

Abram French, '52.  
Henry C. Howe.  
Joseph S. Grush.  
Samuel K. Pickering.

**WARD 5.**

George W. Patterson, '52.  
William A. Richardson, '49, President.  
Patrick Conlan.  
Jonathan Bowers.

**WARD 6.**

Caleb G. Weaver, '52.  
William C. Parker, '52.  
George F. Woods.  
C. F. Blanchard.

WILLIAM LAMSON, JR., Clerk.

**1854.****MAYOR:****SEWALL G. MACK, '43, '44, \*'47, †'53.****ALDERMEN:**

Elisha Huntington, †'37, †'38, †'39, †'40,	Joseph White, *'53.
†'41, †'44, †'45, *'47, †'52, *'53.	Horatio Fletcher, '47.
J. B. V. Coburn, *'52, *'53, res'd in Jan.	C. F. Blanchard, '53.
Samuel K. Hutchinson, *'53.	Charles Sperry.
Ira Spalding, '42, '43, *'53.	

**WILLIAM LAMSON, JR. City Clerk.****COMMON COUNCIL:****WARD 1.**

John C. Smith, '52, '53.  
 Paul Hill, '52.  
 Marcus A. Thomas, '53.  
 Thomas Lennon.

**WARD 2.**

George W. Stanley, '53.  
 William H. Gage.  
 Amos A. Taylor.  
 William H. Bradley.

**WARD 3.**

Calvin Philbrick, '53.  
 Leonard Brown, '53, declined.  
 Darius C. Brown, '51, '52, elected.  
 Henry H. Wilder, '53.  
 Peter O. C. Frawley.

**WARD 4.**

Henry C. Howe, '53.  
 Joseph S. Grush, '53.  
 Samuel K. Pickering, '53.  
 Hubbard Wilson.

**WARD 5.**

Wm. A. Richardson, '49, †'53, President.  
 Jonathan Bowers, '53.  
 Patrick Conlan, '53.  
 John C. Woodward.

**WARD 6.**

George F. Woods, '53.  
 Charles S. Eastman.  
 Levi H. Straw.  
 William P. Webster.

**LEONARD BROWN, Clerk.****1855.****MAYOR:****AMBROSE LAWRENCE, '49, '51.****ALDERMEN:**

Wm. Fiske, '37, '38, '41, '50, *'51, *'52.	Andrew T. Nute.
Artemas L. Brooks, *'49.	Abner Frost.
Daniel Woodward.	William S. Johnson.
Lorenzo G. Howe.	Shadrach R. Brackett.

**WILLIAM LAMSON, JR., City Clerk.****COMMON COUNCIL:****WARD 1.**

Maynard Bragg, '49, '50.  
 Aaron B. Young.  
 Augustus B. Roby.  
 George L. Harris.

**WARD 2.**

William G. Morse.  
 George K. Paul.  
 Mark H. Cook.  
 Joseph A. Patten.

**WARD 3.**

Alfred Gilman, '43, '48, '49, President.  
 Daniel Hurd.  
 Theodore Warren.  
 Stephen K. Fielding.

**WARD 4.**

Joshua W. Daniels.  
 John Bennett.  
 Alanson Folsom.  
 Francis H. Nourse.

**WARD 5.**

John C. Woodward, '54.  
 Stephen Bartlett.  
 Jonathan Johnson.  
 Oliver P. Rand.

**WARD 6.**

Levi H. Straw, '54.  
 William T. Whitten.  
 Lucien P. Stacy.  
 James M. Moore.

**LEONARD BROWN, Clerk.**



**1856.****MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, \*'47,  
†'52, \*'53, \*'54.

**ALDERMEN:**

Edward Tuck.  
Samuel Burbank, '40, '41, \*'52.  
Charles B. Coburn, '44.  
William P. Webster, '54.  
Hapgood, Wright, '45, '46.

Charles H. Wilder, '37, '44, '45.  
O. J. Conant, resigned in March.  
James H. Rand.  
Jonathan Johnson, elected in June.

WILLIAM LAMSON, JR., City Clerk.

**COMMON COUNCIL:****WARD 1.**

Enos O. Kingsley.  
Abiel Pevey.  
David M. Collins.  
Marshall E. Thompson.

**WARD 2.**

Isaac Hinckley.  
Seth Gage.  
Peter Flanders, Jr.  
Leonard F. Jewell.

**WARD 3.**

David Rogers.  
Benj. C. Sargeant, '51, †'52, President.  
Henry H. Carroll.  
Peter Powers.

**WARD 4.**

Francis H. Nourse, '55.  
Alden B. Buttrick.  
Holland Streeter, '51, '52.  
James Sands.

**WARD 5.**

Frederick Holton.  
Isaac Place.  
Albert Wheeler.  
Abiel Rolfe, '48, \*'51.

**WARD 6.**

Eliphalet Hills.  
Jonathan P. Folsom.  
James K. Fellows, '37.  
John K. Chase.

JAMES J. MAGUIRE, Clerk.

**1857.****MAYOR:**

STEPHEN MANSUR, '36, '39, \*'40, \*'47, \*'53.

**ALDERMEN:**

Andrew T. Nute, \*'55.  
John C. Woodward, '54, '55.  
Jonathan Smothers, '50, '51.  
Samuel W. Stickney.

John B. Tuttle.  
Francis H. Nourse, '55, '56.  
Jonathan Johnson, '55, \*'56.  
John Nesmith, '39, '40, '42, '48.

WILLIAM LAMSON, JR., City Clerk.

**COMMON COUNCIL:****WARD 1.**

Abiel Pevey.  
Stephen T. Stanley.  
Charles A. Welch.  
George F. Scribner.

**WARD 2.**

William G. Morse, '55.  
William D. Vinall.  
Temple Tebbetts.  
James M. Howe.

**WARD 3.**

Benjamin C. Sargeant, '51, †'52, †'56.  
David Rogers, '56.  
Henry H. Carroll, '56.  
Nathan Allen.

**WARD 4.**

Caleb Crosby, '49, '50.  
John F. Howe.  
John C. Jepson.  
Alanson Nichols.

**WARD 5.**

Frederick Holton, '56, President.  
William H. Wiggin.  
William Goodale.  
Charles Hubbard.

**WARD 6.**

Erastus Boyden.  
Jonathan Kimball.  
Robert J. Garrett.  
William Nichols.

HENRY A. LORD, Clerk.

**1858.****MAYOR:**

**ELISHA HUNTINGTON**, † '37, † '38, † '39, † '40, † '41, † '44, † '45, \* '47, † '52, \* '53, \* '54, † '56.

**ALDERMEN:**

Sewall G. Mack, '43, '44, \* '47, † '53, † '54. Joseph M. Dodge, '37.  
 Samuel W. Stickney, \* '57. Harvey Silver.  
 Abiel Pevey, '56, '57. Albert Wheeler, '56.  
 Jeremiah P. Jewett, 42. Edwin A. Alger.

**JOHN H. McALVIN**, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Charles Wilkins.  
 John M. Maynard.  
 John E. Webb.  
 William Barnard.

**WARD 2.**

Edward Tuck, \* '56.  
 William P. Webster, '54, \* '56.  
 Andrew Blood.  
 William F. Salmon.

**WARD 3.**

Benjamin C. Sargeant, '51, † '52, † '56,  
 '57, President.  
 Hanover Dickey.  
 Joseph A. Brabrook.  
 Benjamin S. Butterworth.

**WARD 4.**

Enoch P. Young.  
 Zephaniah Goward.  
 Jesse Blake.  
 John F. Howe, '57.

**WARD 5.**

Willard Dudley.  
 Samuel T. Manahan.  
 Isaac Page.  
 John Avery, 2d.

**WARD 6.**

William Nichols, '57.  
 Alpha B. Farr, resigned in January.  
 Leonard Brown, '53, '54, elected in Feb.  
 Erastus Boyden, '57.  
 James H. Rand, \* '56, resigned in May.  
 Eben'r Burgess, elected in June.

**GEORGE GARDNER**, Clerk.

**1859.****MAYOR:**

**JAMES COOK**, '36, '53.

**ALDERMEN:**

Lorenzo G. Howe, \* '55.  
 Samuel J. Varney, '50, 51, \* '52.  
 Paul Hill, '52, '54.  
 Ambrose Lawrence, '49, '51, † '55, re-  
 signed in April.  
 Darius C. Brown, '51, '52.

John F. Howe, '57, '58.  
 Joshua Converse, '40, \* '51, res'd in April.  
 J. P. Folsom, '56, resigned in April.  
 Edward Tuck, \* '56, '58, elected in May.  
 Samuel T. Manahan, '58, elected in May.  
 Jonathan Ladd, elected in May.

**JOHN H. McALVIN**, City Clerk.

**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58.  
 Charles Wilkins, '58.  
 William Barnard, '58.  
 William D. Blanchard.

**WARD 2.**

W. P. Webster, '54, \* '56, '58, President.  
 William F. Salmon, '58.  
 James M. Howe, '57.  
 David Nichols.

**WARD 3.**

George Hobson.  
 Asahel D. Puffer.  
 John Willoughby.  
 Benjamin S. Butterworth, '58.

**WARD 4.**

Caleb Crosby, '49, '50, '57.  
 Jesse Blake, '58.  
 George W. Partridge.  
 George W. Young.

**WARD 5.**

Horatio G. F. Corliss, '44, '46.  
 Luther B. Morse.  
 Josiah G. Peabody, \* '50.  
 William Goodale, '57.

**WARD 6.**

Charles A. Stott.  
 Levi Sprague.  
 Ebenezer Burgess, '58.  
 Leonard Brown, '53, '54, '58.

**GEORGE GARDNER**, Clerk.

**1860.****MAYOR:****BENJAMIN C. SARGEANT, '51, † '52, † '56, '57, † '58.****ALDERMEN:**

Edward F. Watson, '40, '41, \*'44, \*'45.      Henry H. Wilder, '53, '54.  
 Lorenzo G. Howe, \*'55, \*'59.      Abner Frost, \*'55.  
 James Watson, '50, '51.      Samuel T. Manahan, '58, \*'59.  
 William G. Morse, '55, '57.      \* William S. Gardner.

**JOHN H. McALVIN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Benjamin S. Ireson.  
 Enoch Quimby.  
 John P. Slocum.  
 Amos H. Foster.

**WARD 2.**

Henry P. Clough.  
 Alfred S. Saunders, '49.  
 Wm. F. Salmon, '58, '59, President.  
 Joseph L. Sargeant.

**WARD 3.**

George Hobson, '59.  
 Josiah B. Fielding.  
 Henry P. Perkins.  
 Hocum Hosford.

**WARD 4.**

George W. Partridge, '59.  
 George W. Young, '59.  
 Morrill M. Bohonan.  
 Caleb Crosby, '49, '50, '57, '59.

**WARD 5.**

Josiah G. Peabody, \*'50, '59.  
 Sullivan L. Ward.  
 George F. Morey.  
 William H. Lamson.

**WARD 6.**

William Nichols, '57, '58.  
 Samuel T. Lancaster.  
 Charles A. Stott, '59.  
 Foster Nowell.

**GEORGE GARDNER, Clerk.****1861.****MAYOR:****BENJAMIN C. SARGEANT, '51, † '52, † '56, '57, † '58, † '60.****ALDERMEN:**

Samuel T. Manahan, '58, \*'59, \*'60.      Aldis L. Waite.  
 Jonathan P. Folsom, '56, \*'59.      David Whitney, declined acceptance.  
 James Watson, '50, '51, \*'60.      Sager Ashworth, elected in May.  
 William G. Morse, '55, '57, \*'60.      William S. Gardner, \*'60.  
 Hocum Hosford, '60.

**JOHN H. McALVIN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Frank E. Jewett.  
 M. Gilbert Perkins.  
 Jacob Baron.  
 William D. Blanchard, '59.

**WARD 2.**

Alfred S. Saunders, '49, '60.  
 Joseph L. Sargent, '60.  
 Henry P. Clough, '60.  
 Henry S. Orange.

**WARD 3.**

William L. North, President.  
 George W. Norris.  
 Henry P. Perkins, '60.  
 James G. Morrison.

**WARD 4.**

Joseph Cater.  
 Joseph B. Keyes.  
 Morrill M. Bohonan, '60.  
 Abel M. Ayer.

**WARD 5.**

Sullivan L. Ward, '60.  
 Samuel Beck.  
 William H. Parker.  
 George F. Morey, '60.

**WARD 6.**

Samuel T. Lancaster, '60.  
 Foster, Nowell, '60.  
 Elon A. Sanborn.  
 George E. Dana.

**GEORGE GARDNER, Clerk.**

## MUNICIPAL REGISTER

1862.

## MAYOR:

HOCUM HOSFORD, '60, \*'61.

## ALDERMEN:

Mertoun C. Bryant.

Edwin A. Alger, \*'58.

James B. Francis, \*'49, \*'50.

William A. Burke.

Isaac F. Scripture.

Aldis L. Waite, \*'61.

Albert Wheeler, '56, \*'58.

Jona. P. Folsom, '56, \*'59, \*'61.

JOHN H. MCALVIN, City Clerk.

## COMMON COUNCIL:

## WARD 1.

Amos D. Wright.

Frank E. Jewett, '61.

Horatio G. Burgess.

Charles F. Hard.

## WARD 2.

Benedict O. Carpenter.

William T. McNeill.

Lorenzo G. Howe, \*'55, \*'58, \*'60.

Henry S. Orange, '61.

## WARD 3.

George W. Norris, '61.

Edmund D. Fletcher.

Everett W. French.

John Quinn.

## WARD 4.

Joseph B. Keyes, 61.

George Runels.

John Pettingell.

Hubbard Willson, '54.

## WARD 5.

Rollin C. Downs.

Albert Mallard, '50, '51.

Edward Fifield, '51, '52.

Cleveland J. Cheney.

## WARD 6.

George F. Richardson, President

Albion J. Dudley.

Elon A. Sanborn, '61.

Frederick Frye.

GEORGE GARDNER, Clerk.

1863.

## MAYOR:

HOCUM HOSFORD, '60, \*'61, †'62.

## ALDERMEN:

James B. Francis, \*'49, \*'50, \*'62.

Edwin A. Alger, \*'58, \*'62.

Abiel Pevey, '56, '57, \*'58.

William A. Burke, \*'62.

Isaac F. Scripture, \*'62.

Otis Allen, '43, '48.

Albert Wheeler, '56, \*'58, \*'62.

William Nichols, '57, '58, '60.

JOHN H. MCALVIN, City Clerk.

## COMMON COUNCIL:

## WARD 1.

Charles F. Hard, '62.

Amos D. Wright, '62.

John Cosgrove.

William A. Wright.

## WARD 2.

George F. Sawtell.

Henry S. Orange, '61, '62.

Hugh McEvoy.

Nathaniel Stearns.

## WARD 3.

Everett W. French, '62.

Fordyce Coburn, '50, '51.

Edmund D. Fletcher, '62.

John Quinn, 62.

## WARD 4.

Atwell F. Wright.

Josiah Gates.

William Stafford.

John McCann.

## WARD 5.

James C. Ayer.

Charles W. Saunders.

Cyrus H. Latham.

John E. Downs.

## WARD 6.

George F. Richardson, †'62, President.

Albion J. Dudley, '62.

Benedict O. Carpenter, '62.

Frederick Frye, '62.

GEORGE GARDNER, Clerk.

MUNICIPAL REGISTER  
**1864.**

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**MAYOR:**

**HOCUM HOSFORD**, '60, \*'61, †'62, †'63.

**ALDERMEN:**

William S. Southworth.	George W. Norris, '61, '62.
James B. Francis, *'49, *'50, *'62, *'63.	George Runels, '62.
Dana B. Gove.	Cyrus H. Latham, '63.
* William T. McNeill, '62.	George F. Richardson, †'62, †'63.

**JOHN H. McALVIN**, City Clerk.

**COMMON COUNCIL:**

**WARD 1.**

Alden B. Watson.  
Lewis L. Perrin.  
Frederick S. Tukey.  
John Cosgrove, '63.

**WARD 2.**

George Ripley, President.  
Andrew F. Jewett.  
Artemas S. Young.  
Hoyt W. Hilton.

**WARD 3.**

Samuel N. Wood.  
Charles W. Dodge.  
Joseph S. Pollard.  
James G. Morrison, '61.

**WARD 4.**

Atwell F. Wright, '63.  
Daniel Churchill.  
William W. Sherman.  
Francis Jewett.

**WARD 5.**

John E. Downs, '63.  
Thomas G. Gerrish, resigned June 14.  
Charles Hubbard, '57.  
Cleveland J. Cheney, '62.

**WARD 6.**

Levi Sprague, '59.  
Tobias L. P. Lamson.  
Addison Putnam.  
Albion J. Dudley, '62, '63.

**GEORGE GARDNER**, Clerk.

**1865.**

**MAYOR:**

**JOSIAH G. PEABODY**, \*'50, '59, '60.

**ALDERMEN:**

Ew'd F. Watson, '40, '41, *'44, *'45, *'60.	Henry H. Wilder, '53, '54, *'60.
George W. Norris, '61, '62, *'64.	Josiah Gates, '63.
Dana B. Gove, *'64.	Cyrus H. Lathan, '63, *'64.
William T. McNeill, '62, *'64.	William Brown, '45, '46.

**JOHN H. McALVIN**, City Clerk.

**COMMON COUNCIL:**

**WARD 1.**

Alden B. Watson, '64.  
Lewis L. Perrin, '64.  
George N. Osgood.  
John R. Southwick, '47.

**WARD 2.**

George Ripley, †'64, President.  
Andrew F. Jewett, '64.  
Julian V. Keyes.  
Chester W. Rugg.

**WARD 3.**

Joseph S. Pollard, '64.  
Charles W. Dodge, '64.  
Edward C. Rice.  
Frederick T. North.

**WARD 4.**

Francis Jewett, '64.  
Benjamin Walker.  
Benjamin L. Googins.  
John Pearson.

**WARD 5.**

Charles Hubbard, '57, '64.  
James Kent.  
Simeon D. Osterhoudt.  
James Foster.

**WARD 6.**

Tobias L. P. Lamson, '64.  
Luke C. Dodge.  
Gustavus A. Gerry.  
James M. Moore, '55.

**GEORGE GARDNER**, Clerk.

# MUNICIPAL REGISTER

## 1866.

**MAYOR:****JOSIAH G. PEABODY, \*'50, '59, '60, † '65.****ALDERMEN:**

Samuel A. Brown.	Charles W. Dodge, '64, '65.
Albert B. Plimpton.	Josiah Gates, '63, *'65.
John R. Southwick, '47, '65.	Henry M. Hooke.
Joseph L. Sargent, '60, '61.	Albion J. Dudley, '62, '63, '64.

**JOHN H. McALVIN, City Clerk.****COMMON COUNCIL:****WARD 1.**

William A. Hodge.  
 William A. Wright, '63.  
 Jacob Baron, '61.  
 Rollin C. Downs, '62.

**WARD 2.**

Andrew F. Jewett, '64, '65.  
 George H. Whitmore.  
 Julian V. Keyes, '65.  
 Chester W. Rugg, '65.

**WARD 3.**

Edward C. Rice, '65.  
 Frederick T. North, '65.  
 James N. Pinkham.  
 Oliver W. Smith.

**WARD 4.**

Benjamin L. Gogins, '65.  
 Alfred Scott.  
 Thomas F. Burgess.  
 Benjamin Walker, '65.

**WARD 5.**

Robert H. Butcher.  
 John T. Lee.  
 George L. Huntoon.  
 Jonathan Johnson, '55, \*'56, \*'57.

**WARD 6.**

Gustavus A. Gerry, '65, President.  
 Luke C. Dodge, '65.  
 Charles A. Kimball.  
 Alfred H. Chase.

**GEORGE GARDNER, Clerk.****1867.****MAYOR:****GEORGE F. RICHARDSON, † '62, † '63, \*'64.****ALDERMEN:**

Charles B. Coburn, '44, '51, *'56.	Abner W. Buttrick, '40, '44, '45, '50;
Hocum Hosford, '60, *'61, † '62, † '63, † '64,	died June 29, '67.
John R. Southwick, '47, '65, *'66.	Wm. E. Livingston, elected Sept. 9, '67.
Joseph L. Sargent, '60, '61, *'66.	William H. Parker, '61.
Edward C. Rice, '65, '66.	Albion J. Dudley, '62, '63, '64, *'66.

**JOHN H. McALVIN, City Clerk.****COMMON COUNCIL:****WARD 1.**

John Shepard.  
 Calvin Sawtell.  
 Foster Wilson.  
 M. Gilbert Perkins, '61.

**WARD 2.**

Gustavus A. Gerry, '65, † '66, President.  
 Ruel J. Walker.  
 William Dobbins.  
 Silas Tyler, Jr.

**WARD 3.**

Jona. P. Folsom, '56, \*'59, \*'61, \*'62.  
 Frederick T. North, '65, '66.  
 Samuel D. Prescott.  
 Nathan M. Wright.

**WARD 4.**

John B. Hunt.  
 John Q. A. Hubbard.  
 Alfred Scott, '66.  
 Thomas F. Burgess, '66.

**WARD 5.**

George L. Huntoon, '66.  
 George S. Cheney.  
 James Foster, '65.  
 John T. Lee, '66.

**WARD 6.**

Alfred H. Chase, '66.  
 James Lawton.  
 John N. Pierce, Jr.  
 Foster Nowell, '60, '61, res'd May 14, '67.  
 William Kittredge, elected Sept. 9, '67.

**GEORGE GARDNER, Clerk.**



**1868.****MAYOR:****GEORGE F. RICHARDSON, † '62, † '63, \*'64, † '67.****ALDERMEN:**

Charles B. Coburn, '44, '51, *'56, *'67.	Edward C. Rice, '65, '66, *'67.
Francis Jewett, '64, '65.	William E. Livingston, *'67.
John M. Pevey, resigned in July.	Frederic Frye, '62, '63.
Charles L. Hildreth, elected in September.	Albion J. Dudley, '62, '63, '64, *'66, *'67.
Silas Tyler, Jr., '67.	

**JOHN H. McALVIN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Calvin Sawtell, '67.  
 John Shepard, '67.  
 John F. Merrill.  
 Frederic T. Greenhalge.

**WARD 2.**

Francis D. Munn.  
 Joseph A. Patten, '55.  
 Ruel J. Walker, '67.  
 Henry S. Orange, '61, '62, '63.

**WARD 3.**

George W. Badger.  
 Samuel D. Prescott, '67.  
 William Walker.  
 Albert A. Haggett.

**WARD 4.**

William H. Anderson.  
 John Q. A. Hubbard, '67.  
 Charles T. Crane.  
 John B. Hunt, '67.

**WARD 5.**

Edwin Lamson.  
 George S. Cheney, '67.  
 William Kelley.  
 Ethan N. Spencer.

**WARD 6.**

John N. Pierce, Jr., '67.  
 James Lawton, '67.  
 Francis Brown.  
 Alfred H. Chase, '66, '67, President.

**GEORGE GARDNER, Clerk.****1869.****MAYOR:****JONATHAN P. FOLSOM, '56, \*'59, \*'61, \*'62, '67.****ALDERMEN:**

Francis Jewett, '64, '65, *'68.	Hapgood Wright, '45, '46, *'56.
Henry H. Wilder, '53, '54, *'60, '65.	John Q. A. Hubbard, '67, '68.
Charles L. Hildreth, *'68.	George S. Cheney, '67, '68.
Cyrus H. Latham, '63, *'64, *'65.	Charles A. Stott, '59, '60.

**JOHN H. McALVIN, City Clerk. Resigned March 15, 1869.****SAMUEL A. McPHETRES, City Clerk. Elected March 15, 1869.****COMMON COUNCIL:****WARD 1.**

Frederic T. Greenhalge, '68.  
 John H. Durgin, Jr.  
 Patrick Keyes.  
 Benjamin Patch.

**WARD 2.**

Joseph A. Patten, '55, '68.  
 Phineas Jones.  
 Francis D. Munn, '68.  
 Amos Sanborn.

**WARD 3.**

George W. Badger, '68.  
 Albert A. Haggett, '68.  
 William Walker, '68.  
 George E. Pinkham.

**WARD 4.**

William H. Anderson, '68, President.  
 Simeon G. Lyford.  
 Henry P. Carter.  
 Epaphras A. Hill.

**WARD 5.**

William Kelley, '68.  
 Willard A. Brown.  
 William O. Fiske.  
 Edwin Lamson, '68.

**WARD 6.**

Francis Brown, '68.  
 Alpha B. Farr, '58.  
 Lucian P. Stacy, '55.  
 William Kittredge, '67.

**GEORGE GARDNER, Clerk.**

**1870.****MAYOR:****JONATHAN P. FOLSOM, '56, \*'59, \*'61, \*'62, '67, †'69.****ALDERMEN:**

Edward F. Sherman.

Frank F. Battles.

Charles L. Hildreth, \*'68, \*'69.

Amos B. French.

Hapgood Wright, '45, '46, \*'56, \*'69.

John Q. A. Hubbard, '67, '68, \*'69.

Addison Putnam, '64.

Charles A. Stott, '59, '60, \*'69.

**SAMUEL A. MCPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69.

Benjamin Patch, '69.

Patrick Keyes, '69.

Samuel G. Ladd.

**WARD 2.**

Phineas Jones, '69.

John L. Moulton.

Patrick Cummiskey.

David G. Skillings.

**WARD 3.**

Albert A. Haggett, '68, '69, President.

Henry P. Perkins, '60, '61.

Hocum Hosford, '60, \*'61, †'62, †'63,

†'64, \*'67, declined.

Matthew Donovan.

John L. Meadowcroft, elected Jan. 24.

**WARD 4.**

Epaphras A. Hill, '69.

Henry P. Carter, '69.

Simeon G. Lyford, '69.

Michael Corbett.

**WARD 5.**

William O. Fiske, '69.

Willard A. Brown, '69.

James D. Hartwell.

Jeremiah Crowley.

**WARD 6.**

Alpha B. Farr, '58, '69.

William Kittredge, '67, '69.

Lucian P. Stacy, '55, '69.

John Stott.

**GEORGE GARDNER, Clerk.****1871.****MAYOR:****EDWARD F. SHERMAN, \*'70.****ALDERMEN:**

Frank F. Battles, \*'70.

William F. Salmon, '58, '59, †'60.

John W. Smith, '49, '50.

Amos B. French, \*'70.

Albert A. Haggett, '68, '69, †'70.

Henry C. Howe, '53, '54.

Frederick Ayer.

Addison Putnam, '64, \*'70.

**SAMUEL A. MCPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69, '70.

Samuel G. Ladd, '70.

Francis N. J. Haviland.

Joel Knapp.

**WARD 2.**

William Dobbins, '67.

John L. Moulton, '70.

Patrick Cummiskey, '70.

Amos A. Blanchard.

**WARD 3.**

Henry P. Perkins, '60, '61, '70, President.

John L. Meadowcroft, '70.

Horace Ela.

Julius C. Jockow.

**WARD 4.**

Benjamin Walker, '65, '66.

Michael Corbett, '70.

Francis H. Chandler.

Charles T. Goddard.

**WARD 5.**

Jeremiah Crowley, '70.

Crawford Burnham.

Henry C. Church.

Patrick Lynch.

**WARD 6.**

Leonard Brown, '53, '54, '58, '59.

John Stott, '70.

Abel T. Atherton.

Nathaniel C. Sanborn.

**GEORGE GARDNER, Clerk.**

**1872.****MAYOR:****JOSIAH G. PEABODY**, \*'50, '59, '60, †'65, †'66.**ALDERMEN:**

Henry C. Howe, '53, '54, \*'71.

Alexander G. Cumnock.

Benjamin Patch, '69, '70.

Gustavus A. Gerry, '65, †'66, †'67.

Frederick T. North, '65, '66, '67.

Benjamin Walker, '65, '66, '71.

William Kelley, '68, '69.

Alpha B. Farr, '58, '69, '70.

**SAMUEL A. MCPHETRES**, City Clerk.**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59.

Alonzo F. Caswell.

Southwell Farrington.

True P. Jordan.

**WARD 2.**

Leonard Brown, '53, '54, '58, '59, '71.

Amos A. Blanchard, '71.

Joseph S. Brown.

Earl A. Thissell.

**WARD 3.**

Henry P. Perkins, '60, '61, '70, †'71, Pres.

Horace Ela, '71.

Julius C. Jockow, '71.

Charles F. Tilton.

**WARD 4.**

Nathaniel P. Favor.

Nathan W. Frye.

Henry A. Lord.

Alonzo L. Russell.

**WARD 5.**

Crawford Burnham, '71.

Charles F. Belden.

Luther J. Fames.

Wilham Shepard.

**WARD 6.**

Abel T. Atherton, '71.

Nathaniel C. Sanborn, '71.

Samuel M. Chase.

Julian Talbot.

**GEORGE GARDNER**, Clerk.**1873.****MAYOR:****FRANCIS JEWETT**, '64, '65, \*'68, \*'69.**ALDERMEN:**Jonathan P. Folsom, '56, \*'59, \*'61, \*'62,  
'67, †'69, †'70.

George Runels, '62, \*'64.

Edward Tuck, \*'56, '58, \*'59, declined.

Isaac Farrington, '46, '47, declined.

William Dobbins, '67, '71, elected Jan. 14.

Charles A. F. Swan, elected January 14.

Jacob H. Sawyer.

Jeremiah Crowley, '70, '71.

Alpha B. Farr, '58, '69, '70, \*'72.

George Stevens.

**SAMUEL A. MCPHETRES**, City Clerk.**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59, '72.

Alonzo F. Caswell, '72.

Frank Brady.

Stephen J. Smiley.

**WARD 2.**

Joseph S. Brown, '72.

Earl A. Thissell, '72.

Daniel Stickney.

Edward P. Woods.

**WARD 3.**

Albert A. Haggett, '68, '69, †'70, \*'71, Pres.

Charles F. Tilton, '72, resigned March 1.

William Bass.

James Owens.

James A. Loughlin, elected April 8.

**WARD 4.**

Atwell F. Wright, '63, '64.

Nathaniel P. Favor, '72.

Nathan W. Frye, '72.

Henry A. Lord, '72.

**WARD 5.**

Robert H. Butcher, '66.

Charles F. Belden, '72.

Jared P. Maxfield.

George Smith.

**WARD 6.**

Nathaniel C. Sanborn, '71, '72.

Samuel M. Chase, '72.

George W. S. Hurd.

Artemas S. Tyler.

**GEORGE GARDNER**, Clerk.

**1874.****MAYOR:****FRANCIS JEWETT**, '64, '65, \*'68, \*'69, † '73.**ALDERMEN:**

Jeremiah Crowley, '70, '71, \*'73. Jonathan Kendall, '42, '44, '52.  
 Benjamin Walker, '65, '66, '71, \*'72. George L. Huntoon, '66, '67.  
 Alonzo F. Caswell, '72, '73. Nathaniel C. Sanborn, '71, '72, '73.  
 Joseph S. Brown, '72, '73. George Stevens, \*'73.

**SAMUEL A. McPHETRES**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57.  
 Frank Brady, '73.  
 Stephen J. Smiley, '73.  
 Charles H. Harvey.

**WARD 2.**

Daniel Stickney, '73.  
 Edward P. Woods, '73.  
 Charles J. Eastman.  
 Edward E. Reed.

**WARD 3.**

Julius C. Jockow, '71, '72.  
 James Owens, '73.  
 James A. Loughlin, '73.  
 George W. Tilton.

**WARD 4.**

Charles T. Goddard, '71.  
 Nathan W. Frye, '72, '73, President.  
 Jacob H. Sawyer, \*'73.  
 Julian A. Richardson.

**WARD 5.**

Jared P. Maxfield, '73.  
 John B. Lyford.  
 Samuel P. Marin.  
 John Scott.

**WARD 6.**

George W. S. Hurd, '73.  
 Joel A. Abbott.  
 Thomas Carolin.  
 Jason Fuller.

**GEORGE GARDNER**, Clerk, died May 29.**DAVID CHASE**, Clerk, elected June 4.**1875.****MAYOR:****FRANCIS JEWETT**, '64, '65, \*'68, \*'69, † '73, † '74.**ALDERMEN:**

Benjamin Walker, '65, '66, '71, \*'72, \*'74. Hapgood Wright, '45, '46, \*'56, \*'69.  
 Jacob Rogers. James Owens, '73, '74.  
 John A. Goodwin. Alden B. Richardson.  
 Joseph S. Brown, '72, '73, \*'74. Samuel A. Chase.

**SAMUEL A. McPHETRES**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57, '74.  
 Charles H. Harvey, '74.  
 John F. Howard.  
 John W. Welch.

**WARD 2.**

Earl A. Thissell, '72, '73.  
 Edward E. Reed, '74.  
 William A. Read.  
 Leavitt R. J. Varnum.

**WARD 3.**

Albert A. Haggett, '68, '69, † '70, \*'71. George W. Tilton, '74. [† '73, Pres.  
 Charles Cowley.  
 Thomas R. Garity.

**WARD 4.**

Josiah Butler.  
 Francis Carl.  
 Edward P. Dennis.  
 Edward Stockman.

**WARD 5.**

James D. Hartwell, '70.  
 John B. Lyford, '74.  
 Orford R. Blood.  
 Charles W. Sleeper.

**WARD 6.**

Joel A. Abbott, '74.  
 Thomas Carolin, '74.  
 Jason Fuller, '74.  
 Albert D. Wright.

**DAVID CHASE**, Clerk.

**1876.****MAYOR:****CHARLES A. STOTT, '59, '60, \*'69, \*'70.****ALDERMEN:**

Jacob Rogers, *'75.	Henry A. Hildreth.
John A. Goodwin, *'75.	George E. Stanley.
Albert A. Haggett, '68, '69, †'73, †'75.	Francis Carl, '75.
Charles F. Belden, '72, '73.	William H. Wiggin, '57.

**SAMUEL A. McPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

John W. Welch, '75.  
 Lewis Stiles.  
 Daniel W. Manning.  
 David M. Collins, '56, declined.  
 John F. Howard, '75, elected January 11.

**WARD 2.**

Leavitt R. J. Varnum, '75.  
 Charles E. Hallowell.  
 Charles Callahan.  
 William A. Read, '75.

**WARD 3.**

Charles Cowley, '75.  
 Charles H. Kimball.  
 Charles Runels.  
 James Howard, died after election.  
 William H. Grady, elected January 11.

**WARD 4.**

Edward Stockman, '75, resigned May 23.  
 Gardner W. King.  
 Stephen H. Jones.  
 Charles D. Starbird.  
 James W. Bennett, elected June 22.

**WARD 5.**

Orford R. Blood '75.  
 John F. Kimball, President from May 23.  
 Charles H. Hanson.  
 M. Gilbert Perkins, '61, '67.

**WARD 6.**

Edwin Sanborn.  
 Benjamin C. Dean, Pres., resig'd May 23.  
 Charles H. Walker.  
 John J. Pickman.  
 Willis Farrington, elected June 22.

**DAVID CHASE, Clerk.****1877.****MAYOR:****CHARLES A. STOTT, '59, '60, \*'69, \*'70, †'76.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73, *'74.	Orford R. Blood, '75, '76, seat vacated.
Horace R. Barker.	Stephen B. Puffer, declined el. January 2.
George E. Stanley, *'76.	Robert Park.
Charles H. Kimball, '76.	George E. Pinkham, '69.
George P. Walker.	

**SAMUEL A. McPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

Daniel W. Manning, '76.  
 Lewis Stiles, '76.  
 John Courtney.  
 Frank Brady, '73, '74, resig'd March 27.  
 Jared P. Maxfield, '73, '74, elected May 8.

**WARD 2.**

Charles E. Hallowell, '76.  
 Francis D. Munn, '68, '69.  
 Charles H. Robbins.  
 Oliver M. Harding.

**WARD 3.**

William H. Grady, '76.  
 Patrick Lynch.  
 Simon Kelly.  
 George E. Davis.

**WARD 4.**

Gardner W. King, '76.  
 James W. Bennett, '76.  
 Irving K. Goodale.  
 Orlnado Blodgett.

**WARD 5.**

John F. Kimball, †'76.  
 Charles H. Hanson '76.  
 Peter S. Coburn.  
 Robert Goulding.

**WARD 6.**

Edwin Sanborn, '76.  
 John J. Pickman, '76.  
 Charles H. Walker, '76.  
 Augustus E. Spaulding, dec. January 10  
 George S. Cushing, elected February 6.

**DAVID CHASE, Clerk.**

**1878.****MAYOR:****JOHN A. G. RICHARDSON.****ALDERMEN:**

Stephen B. Puffer, \*77.  
 Robert Park, \*77.  
 Horace R. Barker, \*77.  
 George F. Scribner, '57.

George E. Scripture.  
 Joseph S. Pollard, '64, '65, [\*77.  
 Jeremiah Crowley, '70, '71, \*73, \*74.  
 Nathaniel C. Sanborn, '71, '72, '73, \*74.

**SAMUEL A. MCPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

John Courtney, '77.  
 John J. Mealey.  
 Joseph M. Ambrose.  
 Charles H. Harvey, '74, '75.

**WARD 2.**

Oramel A. Brigham.  
 Edward M. Tucke.  
 William W. Clark.  
 Albert W. Monty.

**WARD 3.**

Simon Kelly, '77.  
 Edward Cawley.  
 Henry P. Morris.  
 Samuel D. Butterworth.

**WARD 4.**

Irving K. Goodale, '77.  
 Orlando Blodgett, '77.  
 Robert G. Bartlett.  
 Stephen H. Jones, '76.

**WARD 5.**

Robert Goulding, '77.  
 Peter S. Colburn, '77.  
 John F. Kimball, ‡ '76, ‡ '77, President.  
 Enos O. Kingsley, '56.

**WARD 6.**

George S. Cushing, '77.  
 Eli W. Hoyt.  
 Luke B. Taylor.  
 Miles F. Brennan, to January 22.  
 Thomas Nesmith, from January 22.

**DAVID CHASE, Clerk.****1879.****MAYOR:****JOHN A. G. RICHARDSON, † '78.****ALDERMEN:**

Horace R. Barker, \*77, \*78.  
 Charles A. R. Dimon.  
 Joseph S. Pollard, '64, '65, \*78.  
 Charles S. Lilley.

George E. Scripture, \*78.  
 George F. Scribner, '57, \*78.  
 Charles F. Howe.  
 Robert Goulding, '77, '78.

**SAMUEL A. MCPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

Joseph M. Ambrose, '78.  
 John O'Donnell.  
 James Kelly.  
 Richard J. Noonan.

**WARD 2.**

Albert W. Monty, '78.  
 Charles H. Richardson.  
 William K. Chase, resigned November 25.  
 Edwin A. Robinson.  
 Edward M. Tucke, '78, elected Dec. 9.

**WARD 3.**

Edward Cawley, '78.  
 Henry P. Morris, '78.  
 William T. Benson.  
 Patrick A. Rogers.

**WARD 4.**

Robert G. Bartlett, '78.  
 Fred Woodies.  
 Charles F. Varnum.  
 Charles E. Farrington.

**WARD 5.**

Albert W. Burnham.  
 Ambrose L. Ready.  
 Joseph M. Wilson.  
 Edward B. Peirce, President.

**WARD 6.**

Eli W. Hoyt, '78.  
 Luke B. Taylor, '78.  
 Major A. Shaw.  
 Miles F. Brennan, '78.

**DAVID CHASE, Clerk.**



**1880.****MAYOR:****FREDERIC T. GREENHALGE, '68, '69.****ALDERMEN:**

James D. Hartwell, '70, '75.  
 Atwill F. Wright, '63, '64.  
 Charles H. Richardson.  
 Edwin Lamson, '68, '69.

Isaac F. Scripture, \*'62, \*'63.  
 Robert Wood.  
 Charles H. Coburn.  
 James C. Abbott.

**SAMUEL A. MCPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

James Kelly, '79.  
 Richard J. Noonan, '79.  
 Thomas J. Flynn.  
 Lawrence Cummings.

**WARD 2.**

Edwin A. Robinson, '79.  
 Wilbur L. Bates.  
 Samuel W. Foster.  
 Earl A. Thissell, '72, '73, '75, President.

**WARD 3.**

Peter H. Donohoe.  
 William T. Benson, '79.  
 Patrick A. Rogers, '79.  
 Frank Wood.

**WARD 4.**

Fred Woodies, '79.  
 Charles F. Varnum, '79.  
 Charles E. Farrington, '79.  
 Charles D. Starbird, '76.

**WARD 5.**

Joseph M. Wilson, '79.  
 Ambrose L. Ready, '79.  
 Samuel Hosmer.  
 Edward B. Peirce, ‡ '79.

**WARD 6.**

Benjamin F. Freeman.  
 J. Tyler Stevens.  
 Charles C. Hutchinson.  
 Henry C. Cooper.

**DAVID CHASE, Clerk.****1881.****MAYOR:****FREDERIC T. GREENHALGE, '68, '69, † '80.****ALDERMEN:**

Charles H. Richardson, \*'80.  
 Isaac F. Scripture, \*'62, \*'63, \*'80.  
 Robert Wood, \*'80.  
 Ambrose L. Ready, '79, '80.

Levi Sprague, '59, '64.  
 Julius A. Stiles.  
 Samuel D. Butterworth, '78.  
 Thomas R. Garity, '75.

**SAMUEL A. MCPHETRES, City Clerk.****COMMON COUNCIL:****WARD 1.**

Thomas J. Flynn, '80.  
 Lawrence Cummings, '80.  
 Robert J. Thomas.  
 Jeremiah J. Hayes.

**WARD 2.**

Zachariah D. Hall.  
 James M. Howe, '57, '59.  
 Hubert M. Potter.  
 Moses Gibson.

**WARD 3.**

Frank Wood, '80.  
 Peter H. Donohoe, '80.  
 John E. Maguire.  
 D. Moody Prescott.

**WARD 4.**

Julius C. Johnson.  
 Stephen C. Davis.  
 Edward Garner.  
 William N. Osgood.

**WARD 5.**

Atkinson C. Varnum.  
 Samuel Hosmer, '80.  
 Samuel P. Marin, '74.  
 Albert W. Burnham, '79.

**WARD 6.**

Charles C. Hutchinson, '80.  
 Albert G. Thompson.  
 Thomas Nesmith, '78.  
 Lawrence J. Smith.

**DAVID CHASE, Clerk.**

**1882.****MAYOR:****GEORGE RUNELS, '62, \*'64.****ALDERMEN:**

Thomas R. Garity, '75, \*'81, Chairman.

\* Charles W. Sleeper.

George B. Smith.

William A. Wright, '63, '66.

David Whitaker.

D. Moody Prescott, '81.

George S. Cushing, '77, '78.

John F. Phillips.

† John Welch.

† **SAMUEL A. McPHETRES**, City Clerk. § **DAVID W. O'BRIEN**, City Clerk.

\* Resigned, May 23; special election to fill vacancy, June 20.

† Elected June 20, to fill vacancy. † Died Sept. 29, 1882

§ Elected Oct. 4, 1882.

**COMMON COUNCIL:****WARD 1.**

Robert J. Thomas, '81.

Jeremiah J. Hayes, '81.

Dennis J. Crowley.

John A. Walsh.

**WARD 2.**

Zachariah D. Hall, '81.

James M. Howe, '57, '59, '81.

Moses Gibson, '81.

James F. Puffer, Jr.

**WARD 3.**

Frank Wood, '80, '81.

John E. Maguire, '81.

John J. Mead.

James Grady.

**WARD 4.**

Julius C. Johnson, '81.

Stephen C. Davis, '81.

Edward Garner.

William N. Osgood, '81, President.

**WARD 5.**

Atkinson C. Varnum, '81.

Albert W. Burnham, '79, '81.

Artemas B. Woodworth.

Horace B. Barnes.

**WARD 6.**

Albert G. Thompson, '81.

Lawrence J. Smith, '81.

Thaddeus S. Cobb.

Miles J. Fletcher.

**DAVID CHASE**, Clerk.**1883.****MAYOR:****JOHN J. DONOVAN.****ALDERMEN:**

John F. Phillips, \*'82, Chairman.

George B. Smith, \*'82.

Robert J. Thomas, '81, '82.

David Whitaker, \*'82.

D. Moody Prescott, '81, \*'82.

George W. Fifield.

John Welch, \*'82.

Miles J. Fletcher, '82.

**DAVID W. O'BRIEN**, City Clerk.**COMMON COUNCIL:****WARD 1.**

Dennis J. Crowley, '82.

John J. Hogan.

James H. Cahill.

Daniel Murphy.

**WARD 2.**

Samuel Lawrence, '50.

Joseph S. Brown, '72, '73, \*'74, \*'75.

Albert W. Monty, '78, '79.

John F. Thissell.

**WARD 3.**

James Grady, '82.

John J. Mead, '82.

Patrick J. Smith.

Frank J. Donohue.

**WARD 4.**

James G. Elliott.

Solomon K. Dexter.

Alonzo L. Russell, '72.

Geo. A. Bennett.

**WARD 5.**

Edward B. Pierce, † '79, '80.

Artemas B. Woodworth, '82.

John P. Mahoney.

George L. Ashworth.

**WARD 6.**

Lawrence J. Smith, '81, '82.

Thaddeus S. Cobb, '82.

J. Frank Page.

Michael F. Clark.

**DAVID CHASE**, Clerk.

MUNICIPAL REGISTER

1882.

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MAYOR:

JOHN J. DONOVAN, † '33.

ALDERMEN:

Robert J. Thomas, '81, '82, *'83, Chair'n.	Jeremiah Crowley, '70, '71, *'73, *'74, *'77, *'78.
Miles J. Fletcher, '82, *'83.	
George W. Fifield, '83.	Peter H. Donohoe, '80, '81.
Thaddeus S. Cobb, '82, '83.	Freeman B. Shedd.
Edward B. Quinn.	

DAVID W. O'BRIEN, City Clerk.

COMMON COUNCIL:

WARD 1.

John J. Hogan, '83, President.  
James H. Cahill, '83.  
Daniel Murphy, '83.  
James H. Morrison.

WARD 2.

Joseph S. Brown, '72, '73, \*'74, \*'75, '83.  
Albert W. Monty, '78, '79, '83.  
Earl A. Thissell, '72, '73, '75, † '80.  
John R. Pike.

WARD 3.

Patrick J. Smith, '83.  
Peter J. Brady.  
Thomas J. Sparks.  
John Nolan.

WARD 4.

James G. Elliott, '83.  
Solomon K. Dexter, '83.  
Alonzo L. Russell, '72, '83.  
George A. Bennett, '83.

WARD 5.

Edward B. Peirce, † '79, '80, † '83.  
George L. Ashworth,  
Joseph M. Wilson, '79, '80.  
James S. Hanson.

WARD 6.

J. Frank Page, '83.  
Michael F. Clark, '83.  
Alfred M. Chadwick.  
Marcellus H. Fletcher.

DAVID CHASE, Clerk.

1885.

MAYOR:

EDWARD J. NOYES.

ALDERMEN:

John F. Phillips, *'82, *'83, Chairman.	James D. Hartwell, '70, '75, *'80.
John F. Howe, '57, '58, *'59.	George F. Penniman.
William D. Brown.	Oliver E. Cushing.
George E. Stanley, *'76, *'77.	James Francis.

SAMUEL M. CHASE, City Clerk.

COMMON COUNCIL:

WARD 1.

Patrick H. Plunkett.  
James H. Morrison, '84.  
Thomas J. Enright.  
Henry F. Keyes.

WARD 2.

George W. Brothers.  
Walter M. Sawyer.  
James R. Fulton.  
Francis D. Munn, Jr.

WARD 3.

Peter J. Brady, '84.  
Patrick J. Smith, '83, '84.  
John Nolan, '84.  
Thomas J. Sparks, '84.

WARD 4.

Arnold S. Welch.  
George A. Roper.  
William A. Lang.  
Frank W. Howe.

WARD 5.

Wilson W. Carey.  
James S. Hanson, '84.  
Henry L. Newhall.  
Elwyn W. Lovejoy.

WARD 6.

Alfred M. Chadwick, '84, President.  
George R. Richardson.  
Luke B. Taylor, '78, '79.  
William H. White.

DAVID CHASE, Clerk.

**1886.****MAYOR:****JAMES C. ABBOTT.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73, *'74, * '77, *'78, *'84, Chairman.	Daniel Wright.
John F. Phillips, *'82, *'83, *'85.	Samuel D. Butterworth, *'78, *'81.
Stephen B. Puffer, *'77, *'78.	George F. Penniman, *'85.
George L. Stanley, *'76, *'77, *'85.	James Francis, *'85.

**SAMUEL M. CHASE, City Clerk.****COMMON COUNCIL:****WARD 1.**

Peter B. Sherlock.  
Patrick H. Plunkett, '85.  
Thomas J. Enright, '85.  
Timothy H. Brennan.

**WARD 2.**

Walter M. Sawyer, '85, President.  
Charles H. Richardson, '79.  
James R. Fulton, '85.  
Francis D. Munn, Jr., '85.

**WARD 3.**

Daniel Cleary.  
Patrick J. Mahan.  
Edward D. McVey.  
Thomas J. Sparks, '84, '85.

**WARD 4.**

Arnold S. Welch, '85.  
George A. Roper, '85.  
Frank W. Howe, '85.  
William A. Lang, '85.

**WARD 5.**

Henry L. Newhall, '85.  
Elwyn W. Lovejoy, '85.  
Wilson W. Carey, '85.  
Roswell M. Boutwell, '85.

**WARD 6.**

Lawrence J. Smith, '81, '82, '83.  
John E. Drury.  
Charles H. Hobson.  
Marcellus H. Fletcher, '84.

**DAVID CHASE, Clerk.****1887.****MAYOR:****JAMES C. ABBOTT, † '86.****ALDERMEN:**

Stephen B. Puffer, *'77, *'78, *'86, Chai'n.	Peter H. Donohoe, '80, 81, *'84.
Nathan D. Pratt.	Miles J. Fletcher, '82, *'83, *'84.
Francis C. Plunkett.	Frederick Frye, '62, '63, *'68.
August Fels.	Marcellus H. Fletcher, '84, '86.

**DAVID W. O'BRIEN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Michael J. Garvey.  
Dennis A. Sullivan.  
Daniel Murphy, '83, '84.  
Dennis J. Leary.

**WARD 2.**

Walter M. Sawyer, † '86.  
Charles H. Richardson, '79, '86.  
George C. Evans.  
Horace P. Beals.

**WARD 3.**

George B. McKenna.  
John Nolan, '84, '85.  
Daniel Cleary, '86.  
Patrick J. Smith, '83, '84, '85.

**WARD 4.**

Millard F. Wright.  
Edmund B. Conant.  
Jesse H. Shepard.  
Richard Dobbins.

**WARD 5.**

Roswell M. Boutwell, '86.  
George W. Brothers, '85.  
Clarence G. Coburn.  
James H. Carmichael, President.

**WARD 6.**

Richard B. Allen.  
John E. Drury, '86.  
Patrick Conlon.  
Edward Gallagher.

**WILLIAM J. COUGHLIN, Clerk.**

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**MAYOR:**  
**CHARLES D. PALMER.**

**ALDERMEN:**

George A. Scribner.  
George E. Putnam.  
Charles Runels, '76.  
Charles E. Carter.  
Edward D. Holden.

Arthur Staples.  
Roswell M. Boutwell, '86, '87.  
Alfred M. Chadwick, '84, †'85, Chairm'n.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL:**

**WARD 1.**

Dennis A. Sullivan, '87.  
Dennis J. Leary, '87.  
Daniel Murphy, '83, '84, '87.  
Michael J. Garvey, '87.

**WARD 2.**

Frank J. Sherwood.  
Horace P. Beals, '87.  
Harry E. Shaw.  
Pierre A. Brousseau.

**WARD 3.**

John F. Rogers.  
Owen M. Donohoe.  
Thomas J. Sparks, '84, '85, '86.  
\*John F. Roane.  
† Patrick H. Brosnahan.  
\*Resigned Aug. 9. Special Election to  
fill vacancy Sept. 18.  
† Elected Sept. 18 to fill vacancy.

**WARD 4.**

\*Millard F. Wright, '87.  
Edmund B. Conant, '87, President.  
Jesse H. Shepard, '87.  
Richard Dobbins, '87.  
† Alonzo G. Walsh.  
\*Resigned April 24. Special Election to  
fill vacancy June 5.  
† Elected June 5 to fill vacancy.

**WARD 5.**

Charles C. Hartwell.  
Clarence G. Coburn, '87.  
George W. Brothers, '85.  
Joseph S. Lapierre.

**WARD 6.**

William E. Westall.  
Frank Brown.  
Richard B. Allen, '87.  
Abbott Lawrence.

DAVID CHASE, Clerk

**1889.**

**MAYOR:**  
**CHARLES D. PALMER, †'88.**

**ALDERMEN:**

George A. Scribner, \*'88.  
Walter M. Sawyer, '85, †'86, '87.  
George E. Putnam, \*'88.  
Edward D. Holden.

Roswell M. Boutwell, '86, '87, \*'88, Ch'n.  
John H. Fuller.  
William F. Senter.  
John E. Drury, '86, '87.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL:**

**WARD 1.**

Patrick J. Savage.  
Joseph H. Callahan.  
Daniel H. Courtney.  
William J. Johnson.

**WARD 2.**

\*Samuel C. George.  
Pierre A. Brousseau, '88.  
Arthur H. Cluer.  
Frank J. Sherwood, '88.  
† James Stuart Murphy.  
\*Res'd June 9. †Ele. July 2, to fill vacancy.

**WARD 3.**

Owen M. Donohoe, '88.  
Stephen Garrity.  
Patrick H. Brosnahan, '88.  
Thomas J. Sparks, '84, '85, '86, '88.

**WARD 4.**

B. Frank Hale.  
Edwards Cheney.  
Alonzo G. Walsh, '88.  
Frank Gray.

**WARD 5.**

Orford R. Blood, '75, '76.  
Charles C. Hartwell, '88.  
Henry W. Ladd.  
Henry J. Draper.

**WARD 6.**

William E. Westall, '88, President.  
Abbott Lawrence, '88.  
Albert Crowell.  
Frank Brown, '88.

DAVID CHASE, Clerk.

MUNICIPAL REGISTER  
1890.

**MAYOR:**

**CHARLES D. PALMER,** '88, † '89.

**ALDERMEN:**

Albert D. Carter.	John H. Fuller, *'89, Chairman.
Watson A. Dickinson.	Walter M. Sawyer, '85, † '86, '87, *'89.
John E. Drury, '86, '87, *'89.	Samuel E. Snow.
Edmund D. Fletcher.	Joseph M. Wilson, '79, '80, '84.

**GIRARD P. DADMAN,** City Clerk.

**COMMON COUNCIL:**

<p style="text-align: center;">WARD 1.</p> <p>Joseph H. Callahan, '89. Daniel H. Courtney, '89. William J. Johnson, '89. Patrick J. Savage, '89.</p> <p style="text-align: center;">WARD 2.</p> <p>Newell Abare. Arthur H. Cluer, '89. Walter C. Coburn. James Stuart Murphy, '89.</p> <p style="text-align: center;">WARD 3.</p> <p>Patrick H. Brosnahan, '88, '89. Robert C. Gallagher. Charles L. Marren. Thomas J. Sparks, '84, '85, '86, '88, '89.</p>	<p style="text-align: center;">WARD 4.</p> <p>Edwards Cheney, '89. Frank Gray, '89. B. Frank Hale, '89. Alonzo G. Walsh, '88, '89, President.</p> <p style="text-align: center;">WARD 5.</p> <p>Orford R. Blood, '75, '76, '89. Herbert M. Jacobs. Henry W. Ladd, '89. Louis P. Turcotte.</p> <p style="text-align: center;">WARD 6.</p> <p>Albert Crowell, '89. Daniel D. Driscoll. James Gookin. Edward F. Spalding.</p>
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DAVID CHASE Clerk.

1891.

**MAYOR:**

**GEORGE W. FIFIELD,** \*'83, \*'84.

**ALDERMEN:**

Richard B. Allen, '86, '87.	Thomas J. Enright, '85, '86.
James W. Cassidy.	George H. Frye.
Jeremiah Crowley, '70, '71, *'73, *'74, *'77,	Stephen B. Puffer, *'77, *'78, *'86, *'87.
*'78, *'84, *'86, Chairman.	George F. Tilton.
Watson A. Dickinson, *'90.	

**MICHAEL J. DOWD,** City Clerk.

**COMMON COUNCIL:**

<p style="text-align: center;">WARD 1.</p> <p>Patrick H. Barry. James F. Doherty. John J. Sullivan. Peter F. Garrity.</p> <p style="text-align: center;">WARD 2.</p> <p>Newell Abare, '90. Adolphe Benard. Walter C. Coburn, '90. George H. Marston.</p> <p style="text-align: center;">WARD 3.</p> <p>Patrick J. Baxter. John J. Gilbride. Charles H. Marren, '90. Thomas J. Sparks, '84, '85, '86, '88, '89,</p>	<p style="text-align: center;">WARD 4.</p> <p>Edwin L. Giles. Fred Horne. Wallace G. Parkin. Eugene C. Wallace.</p> <p style="text-align: center;">WARD 5.</p> <p>Herbet M. Jacobs, '90. George D. Kimball. John A. Speirs. Louis P. Turcotte, '90.</p> <p style="text-align: center;">WARD 6.</p> <p>James A. Cawley. James J. Dolan. Daniel D. Driscoll, '90. James Gookin, '90.</p>
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'90, President.

DAVID CHASE, Clerk.



MUNICIPAL REGISTER  
**1892.**

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**MAYOR:**

**GEORGE W. FIFIELD, \*'83, \*'84, † '91.**

**ALDERMEN:**

Samuel D. Butterworth, *'78, *'81, *'86.	Stephen J. Johnson.
James W. Cassidy, *'91.	Freeman W. Puffer.
William J. Coughlin.	Frank E. Stowell.
Albert A. Haggett, '68, '69, † '70, *'71,	Charles F. Varnum, '79, '80.
*'76, Chairman.	

**MICHAEL J. DOWD, City Clerk.**

**COMMON COUNCIL**

**WARD 1.**

John Brunette.  
James O'Neill,  
Joseph O'Rourke.  
John J. Sullivan, '91.

**WARD 2.**

Adolphe Benard, '91.  
George H. Marston, '91.  
Frank Scott.  
Hugh A. Thompson.

**WARD 3.**

Patrick J. Baxter, '91.  
John J. Gilbride, '91.  
Thomas J. Sparks, '84, '85, '86, '88, '89,  
'90, † '91, President.  
William H. Stafford.

**WARD 4.**

Edwin L. Giles, '91.  
Fred Horne, '91.  
Wallace G. Parkin, '91.  
Moses Wyman.

**WARD 5.**

Constant Henotte.  
Patrick H. Kehoe.  
Joseph A. McDonald.  
Charles W. Swan.

**WARD 6.**

William T. Benson, '79, '80.  
James J. Dolan, '91.  
Thomas F. Hoban.  
Michael F. McCarthy.

**DAVID CHASE, Clerk.**

**1893.**

**MAYOR:**

**JOHN J. PICKMAN, '76, '77.**

**ALDERMEN:**

George R. Choate.	Freeman W. Puffer, *'92.
George C. Evans, '87.	Stephen B. Puffer, *'77, *'78, *'86, *'87,
Stephen J. Johnson, *'92.	*'91.
Elwyn W. Lovejoy, '85, '86.	William E. Westall, '88, † '89, Chairman.
Joseph A. McDonald, '92.	

**MICHAEL J. DOWD, City Clerk.**

**COMMON COUNCIL:**

**WARD 1.**

John Brunette, '92.  
Patrick J. O'Brien.  
James O'Neil, '92.  
Fred H. Rourke.

**WARD 2.**

Charles H. Boisvert.  
Frank Scott, '92.  
Hugh A. Thompson, '92.  
George H. Tryder.

**WARD 3.**

Frank Dunlap.  
John J. Grady.  
John Joseph O'Connor.  
William H. Stafford, '92.

**WARD 4.**

George E. Barclay.  
William J. Hills.  
Charles T. Killpartrick.  
Moses Wyman, '92.

**WARD 5.**

Cyrille Constantineau.  
Patrick J. Custy.  
Charles H. Noble.  
James O'Sullivan.

**WARD 6.**

William T. Benson, '79, '80, '92, Pres.  
James J. Dolan, '91, '92.  
Thomas F. Hoban, '92.  
Anthony Robinson.

**FRANK J. SIMONDS, Clerk.**

**1894.****MAYOR:****JOHN J. PICKMAN, '76, '77, † '93.****ALDERMEN:**

Charles N. Bagley.  
 Watson A. Dickinson, \*'90, \*'91.  
 Frank Dunlap, '93.  
 Coolidge R. Johnson.  
 Stephen J. Johnson, \*'92, \*'93.

Elwyn W. Lovejoy, '85, '86, \*'93, Chair-  
 man.  
 George E. Stanley, \*'76, \*'77, \*'85, \*'86.  
 William E. Westall, '88, † '89, \*'93.

**MICHAEL J. DOWD, City Clerk.****COMMON COUNCIL:****WARD 1.**

Matthew M. Mansfield.  
 Patrick J. O'Brien, '93.  
 Fred H. Rourke, '93.  
 John J. Ryan.

**WARD 2.**

J. Henry Collins.  
 John G. Gordon.  
 Fred W. Sanborn.  
 George H. Tryder, '93.

**WARD 3.**

Joseph H. Gormley.  
 John J. O'Connell.  
 John Joseph O'Connor, '93.  
 Thomas J. Sparks, '84, '85, '86, '88, '89,  
 '90, † '91, † '92, President.

**WARD 4.**

George E. Barclay, '93.  
 William L. Hills, '93.  
 Charles T. Killpatrick, '93.  
 Luther F. Kittredge.

**WARD 5.**

Patrick J. Custy, '93.  
 Frederick E. Labarge.  
 Charles H. Noble, '93.  
 John Oliver.

**WARD 6.**

William T. Benson, '79, '80, '92, † '93,  
 Died May 21, 1894.  
 William F. Curtin.  
 Charles Riley.  
 Anthony Robinson, '93.  
 Thomas O'Day, Elected July 17, '94.

**FRANK J. SIMONDS, Clerk.****1895.****MAYOR:****WILLIAM F. COURTNEY.****ALDERMEN:**

Frank B. Dow.  
 Frederic J. Flemings.  
 William L. Hills, '93, '94.  
 Charles E. Howe.

George H. Tryder, '93, '94.  
 Daniel H. Varnum, Chairman.  
 John C. Wilson.  
 Moses Wyman, '92, '93.

**GIRARD P. DADMAN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Patrick H. Barry, '91.  
 Thomas F. Garvey.  
 Hugh Maguire, Jr.,  
 Matthew M. Mansfield.

**WARD 2.**

Edwin S. Eastman.  
 William Hounsell.  
 Willis E. Morse.  
 Fred W. Sanborn, '94.

**WARD 3.**

Patrick F. Delehanty.  
 Joseph H. Gormley, '94.  
 James F. Miskella.  
 Timothy J. Reynolds.

**WARD 4.**

David Dickson.  
 Edward T. Goward.  
 Jonathan G. Hunton.  
 Herbert E. Webster.

**WARD 5.**

Eugene E. Dennison.  
 George W. Hartwell.  
 John Oliver.  
 Francis P. Rivet.

**WARD 6.**

William F. Curtin, '94, President.  
 Thomas O'Day, '94.  
 Charles Riley, '94.  
 John E. Sullivan.

**FRANK J. SIMONDS, Clerk.**

**1896.****MAYOR:****WILLIAM F. COURTNEY, †'95.****ALDERMEN:**

Jeremiah Crowley, '70, '71, \*'73, \*'74, John H. McAlvin.  
 \*'77, \*'78, \*'84, \*'86, Chairman. James A. Pevey.  
 Frank B. Dow, \*'95. George H. Tryder, '93, '94, \*'95.  
 Frederic J. Flemings, \*'95. Edward M. Tucke.  
 Charles E. Howe, \*'95. John C. Wilson, \*'95.

**GIRARD P. DADMAN, City Clerk.****COMMON COUNCIL:****WARD 1.**

William Hounsell, '95, ward 2.  
 Jonathan G. Hunton, '95, ward 4.  
 Homer B. Nay.

**WARD 2.**

William J. Dunn.  
 Hugh Maguire, Jr., '95, ward 1.  
 Dennis J. Pendergast.

**WARD 3.**

David Dickson, '95, ward 4.  
 Frank H. Hallett.  
 Herbert M. Jacobs, '90, '91, ward 5.

**WARD 4.**

James F. Miskella, '95, ward 3.  
 Stephen O'Hare.  
 Timothy J. Reynolds, '95, ward 3.

**WARD 5.**

John P. O'Hare.  
 John E. Sullivan, '95, ward 6.  
 Charles E. Thornton.

**WARD 6.**

William E. Badger.  
 Sidney Drewett.  
 Edwin S. Eastman.

**WARD 7.**

George W. Hartwell, '95, ward 5.  
 Francis P. Rivet, '95, ward 5.  
 Lorenzo E. Smith.

**WARD 8.**

Fred A. George.  
 William H. Penn.  
 Herbert E. Webster, '95, ward 4, **Pres't.**

**WARD 9.**

Charles A. Eveleth. Henry K. White.  
 Carl G. A. F. W. E. Pihl.

**FRANK N. OWEN, Clerk.****1897.****MAYOR:****WILLIAM F. COURTNEY, †'95, †'96.****ALDERMEN:**

Charles H. Cosgrove. Charles E. Howe, \*'95, \*'96, Chairman.  
 Lucius A. Derby. Abbott Lawrence, '88, '89.  
 Edwin S. Eastman, '95, '96. Edward B. Pierce, †'79, '80, †'83, '84.  
 Edward T. Goward, '95. Fred A. Tuttle.  
 George L. Hooper.

**GIRARD P. DADMAN, City Clerk.****COMMON COUNCIL:****WARD 1.**

Anadore B. Bosca.  
 Clarence W. Dana.  
 Samuel Scott.

**WARD 2.**

William J. Dunn, '96.  
 James Kennedy.  
 Dennis J. Pendergast, '96.

**WARD 3.**

William H. Brown.  
 James Smith.  
 Oliver D. Wilder.

**WARD 4.**

Francis M. Fagan.  
 James F. Miskella, '95, '96.  
 Stephen O'Hare, '96.

**WARD 5.**

George Farley.  
 Michael E. Sullivan.  
 Charles E. Thornton, '96.

**WARD 6.**

John H. Beaulieu.  
 Walter F. Leighton.  
 George H. Taylor.

**WARD 7.**

Clovis Belanger.  
 Lorenzo E. Smith, '96.  
 Lincoln R. Welch.

**WARD 8.**

Arthur W. Lang.  
 Charles F. Libby.  
 William H. Penn, '96, **President.**

**WARD 9.**

Butler Ames. Louis B. Sykes.  
 Henry K. White, '96.

**FRANK N. OWEN, Clerk.**

**1898.****MAYOR:****JAMES W. BENNETT, '76, '77.****ALDERMEN:**

Charles H. Cosgrove, \*'97.

Lucius A. Derby, \*'97.

Charles A. R. Dimon, \*'79, Chairman.

Edward T. Goward, '95, \*'97.

Guy Holbrook.

Oliver A. Libby.

Edward B. Peirce, †'79, '80, †'83, '84, \*'97.

Francis P. Rivet, '95, '96.

Fred A. Tuttle, \*'97.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Anadore B. Bosca, '97.

Clarence W. Dana, '97.

Charles D. Paige.

**WARD 2.**

Thomas F. Garvey, '95.

James Kennedy, '97.

Frank McMahon.

**WARD 3.**

James Smith, '97.

Burton H. Wiggin.

Oliver D. Wilder, '97.

**WARD 4.**

Francis M. Fagan, '97.

Michael J. Markham.

John J. Roark.

**WARD 5.**

George A. Farley, '97.

William J. McCluskey.

Michael Sullivan, '97.

**WARD 6.**

John H. Beaulieu, '97.

Walter F. Leighton, '97.

George H. Taylor, '97, President.

**WARD 7.**

Alfred J. Howe.

Charles H. Merrill.

Eben B. Stafford.

**WARD 8.**

Arthur W. Lang, '97.

Charles F. Libby, '97.

Anthony D. Mitten.

**WARD 9.**

Walter E. Murkland.

Louis B. Sykes, '97.

William D. Whittet.

FRANK M. DOWLING, Clerk.

**1899.****MAYOR:****JEREMIAH CROWLEY, '70, '71, \*'73, \*'74, \*'77, \*'78, \*'84, \*'86, \*'91, \*'96****ALDERMEN:**

Sam Chapin.

Lucius A. Derby, \*'97, \*'98.

Charles A. R. Dimon, \*'79, \*'98.

Oliver A. Libby, \*'98.

Philip McNulty.

James F. Miskella, '95, '96, '97.

Edward B. Peirce, †'79, '80, †'83, '84, \*'97, \*'98.

George H. Taylor, '97, †'98.

Oliver D. Wilder, '97, '98.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL:****WARD 1.**

Herbert R. Baker.

Charles D. Paige, '98, President.

Francis E. Saunders.

**WARD 2.**

Patrick H. Barry, '91, '95.

Frank McMahon, '98.

John J. Mullaney.

**WARD 3.**

William H. Brown.

Chas. H. Flanders.

Burton H. Wiggin, '98.

**WARD 4.**

Timothy F. Donchoe.

Michael J. Markham, '98.

John J. Roark, '98.

**WARD 5.**

Frank S. Clark.

John F. Dillon.

John J. O'Brien.

**WARD 6.**

William E. Badger, '96.

George E. Burns.

James F. Walker.

**WARD 7.**

Philip Desmarais.

Lewis Lebrun.

Eben B. Stafford, '98.

**WARD 8.**

Fred E. Bean.

Ralph B. Lyman.

Anthony D. Mitten, '98.

**WARD 9.**

Henry Hatch.

Walter E. Murkland, '98.

William D. Whittet, '98.

FRANK M. DOWLING, Clerk.

**1900.****MAYOR.**

JEREMIAH CROWLEY, '70, '71, \*'73, \*'74, \*'77, \*'78, \*'84, \*'86, \*'91, \*'96, †'99.

**ALDERMEN.**

William E. Badger, '96, '99.  
Cyrus Barton.  
John H. Beaulieu, '97, '98.  
William H. Brown, '99.  
James H. Carmichael, †'87.

Edward S. Howe.  
Charles D. Paige, '98, †'99.  
George H. Taylor, '97, †'98, \*'99, Chairman.  
William D. Whittet, '98, '99.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL.****WARD 1.**

Herbert R. Baker, '99.  
James G. Hill.  
Francis E. Saunders, '99.

**WARD 2.**

Patrick H. Barry, '91, '95, '99.  
Bernard F. Lee.  
John J. Mullaney, '99.

**WARD 3.**

Otto Jensen.  
Ephraim D. Livingston.  
George McElroy.

**WARD 4.**

James B. Casey.  
Timothy F. Donohoe, '99.  
Michael J. Markham, '98, '99.

**WARD 5.**

T. Frank Clark.  
John F. Dillon, '99.  
Thomas J. McCaffrey.

**WARD 6.**

Pierre A. Brousseau, '88, '89.  
George E. Burns, '99.  
James F. Walker, '99, President.

**WARD 7.**

Alfred J. Howe, '98.  
Louis Lebrun, '99.  
Eben B. Stafford, '98, '99.

**WARD 8.**

Fred E. Bean, '99.  
Anthony D. Mitten, '98, '99.  
Charles E. Tilton.

**WARD 9.**

George Emsley. Henry Hatch, '99.  
Daniel N. Pickering.

FRANK M. DOWLING, Clerk.

**1901.****MAYOR.**

CHARLES A. R. DIMON, \*'79, \*'98, \*'99.

**ALDERMEN.**

William E. Badger, '96, '99, \*1900.  
James H. Carmichael †'87, \*1900.  
Patrick Conlon, '87.  
Philip Desmarais, '99.  
Richard J. McCluskey.

James F. Miskella, '95, '96, '97, \*'99, Chairman.  
Joseph Mullin.  
Gardner W. Pearson.  
John J. Sullivan, '91, '92.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL.****WARD 1.**

Herbert R. Baker, '99, 1900.  
James G. Hill, 1900. Elected Pres. July 2, 1901.  
Mark D. Taylor.

**WARD 2.**

Peter Daley.  
Patrick J. O'Rourke.  
John H. Spillane. Died April 16.  
John J. Pinder. Elected June 4.

**WARD 3.**

Otto Jensen, 1900.  
Ephraim D. Livingston, 1900.  
George McElroy, 1900.

**WARD 4.**

James B. Casey, 1900.  
Timothy Donohoe, '99, 1900.  
Michael J. Markham, '98, '99, 1900.

**WARD 5.**

T. Frank Clark, 1900.  
Thomas J. McCaffrey, 1900.  
George B. Roche.

**WARD 6.**

Pierre A. Brousseau, '88, '89, 1900, President.  
Resigned July 2, 1901.  
John A. Henderson.  
Harry Swann.

**WARD 7.**

Louis Lebrun, '99, 1900.  
Joseph A. Legare.  
Albert S. Park.

**WARD 8.**

James P. Dugdale.  
Albert F. Grant.  
Charles E. Tilton, 1900.

**WARD 9.**

Charles H. Clough.

George Emsley, 1900.

Frank G. Lundberg.

FRANK M. DOWLING, Clerk.

**1902.****MAYOR.**

CHARLES A. R. DIMON, \*79, \*98, \*99, †01. (Died May 21, 1902.)  
 WILLIAM E. BADGER, (Acting Mayor.)

**ALDERMEN.**

William E. Badger, '96, '99, \*00, \*01, Chairman. Lucius A. Derby, \*97, \*98, \*99.  
 Cyrus Barton, \*00. Charles H. Molloy.  
 William H. Brown, '99, \*00. James O'Sullivan, '93.  
 George E. Burns, '99, '00. George F. Stiles.  
 James H. Carmichael, †87, \*00, \*01.

GIRARD P. DADMAN, City Clerk.

**COMMON COUNCIL.****WARD 1.**

Cecil L. Adams.  
 James G. Hill, '00, '01, President.  
 Mark D. Taylor '01.

**WARD 2.**

Frederick Cronan.  
 Peter Daley, '01.  
 John J. Pinder, '01

**WARD 3.**

Asa B. Hilliard,  
 Thomas G. Little.  
 Charles H. Worcester.

**WARD 4.**

James B. Casey, '00, '01.  
 Timothy Donohoe, '99, '00, '01.  
 Patrick F. Welch.

William G. Brown.

**WARD 5.**

John F. Dillon, '99, '00.  
 Hugh Finnerty.  
 George B. Roche, '01.

**WARD 6.**

John A. Henderson, '01.  
 Elie C. Laporte.  
 Harry Swan, '01.

**WARD 7.**

Edmond P. Fontaine.  
 Joseph A. Legare, '01.  
 Albert S. Park, '01.

**WARD 8.**

William Fairweather.  
 Albert F. Grant, '01.  
 Hamlet S. Greenwood.

**WARD 9.**

Daniel N. Pickering, '00. John S. Palm.  
 FRANK M. DOWLING, Clerk.

















SEVENTY-SEVENTH ANNUAL REPORT  
OF THE  
SCHOOL COMMITTEE  
OF THE  
CITY OF LOWELL, MASS.,  
AND THE  
THIRTY-NINTH ANNUAL REPORT  
OF THE  
Superintendent of Public Schools  
1902.



LOWELL, MASS.  
UNION PRINTING COMPANY, 67 MIDDLE STREET.  
1908.

## CITY OF LOWELL.

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OFFICE OF THE SCHOOL COMMITTEE,

LOWELL, MASS., Dec. 29, 1902.

At a meeting of the School Committee, held Dec. 29, 1902, it was voted that the Committee on Reports and the Superintendent of Schools have leave to print their annual reports for the year 1902.

In accordance with this vote the reports are herewith submitted.

A. K. WHITCOMB, Secretary.

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1902.

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WILLARD EVERETT, President.

ARTHUR K. WHITCOMB, Secretary.

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Ward 1—	WILLIAM W. DUNCAN, 56 Hildreth Bldg.	Term expires 1903
“ 2—	JOHN J. HANLON, 169 Broadway.	“ “ 1903
“ 3—	CHARLES L. SWEETSIR, 276 Westford St.	“ “ 1902
“ 4—	WILLIAM F. REGAN, 79 Kinsman St.	“ “ 1903
“ 5—	DENNIS J. MURPHY, 33 Tyler St.	“ “ 1902
“ 6—	JOSEPH N. MARSTON, 159 Middlesex St.	“ “ 1902
“ 7—	ANDREW G. SWAPP, 307 Pawtucket St.	“ “ 1903
“ 8—	WILLARD EVERETT, 12 Belmont St.	“ “ 1902
“ 9—	ALBERT G. THOMPSON, Lowell Post Office.	“ “ 1903

### STANDING COMMITTEES.

ON TEACHERS AND SALARIES. — Messrs. Swapp, Everett, Murphy.

ON BOOKS AND SUPPLIES. — Messrs. Sweetsir, Marston, Duncan, Hanlon,  
REGAN.

ON EVENING SCHOOLS. — Messrs. Everett, Swapp, Marston, Duncan,  
Hanlon.

ON HIGH SCHOOL. — Messrs. Swapp, Everett, Sweetsir, Murphy, Regan.

ON PENMANSHIP AND DRAWING. — Messrs. Sweetsir, Thompson, Regan.

ON MUSIC. — Messrs. Murphy, Thompson, Duncan.

ON REPORTS AND PRINTING. — Messrs. Marston, Sweetsir, Hanlon.

ON ACCOUNTS. — Messrs. Duncan, Everett, Regan.

ON SCHOOL HOUSES AND HYGIENE. — Messrs. Marston, Murphy,  
Thompson.

ON RULES — Messrs. Thompson, Swapp, Hanlon.

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### ASSIGNMENT OF SCHOOLS.

MR. DUNCAN. — Edson, Eliot, Kirk Street, Cottage Street.

MR. HANLON. — Green, Worthen Street, Cheever Street, Morrill, Worthen  
Street Kindergarten.

MR. SWEETSIR. — High, Lincoln, Howard Street, Grand Street, Plain  
Street, Lincoln and Plain Street Kindergartens.

MR. REGAN. — High, Butler, London Street, Weed Street, Agawam  
Street, Carter Street, Lyon Street, Agawam Street and Chapel  
Street Kindergartens.

MR. MURPHY. — High, Charles Street, Central Street, Ames Street,  
Fayette Street, Charles Street Kindergarten.

MR. MARSTON. — Varnum, West Sixth Street, Tenth Street, Lakeview  
Avenue, Billings Street, Varnum Kindergarten.

MR. SWAPP. — High, Bartlett, Pawtucket, Training, Cross Street, Cabot  
Street, New Moody Street, Lexington Avenue, Pawtucketville  
and Bartlett Kindergartens.

MR. EVERETT.—High, Highland, Franklin, Dover Street, Powell Street, Pine Street, Middlesex Village, Franklin, Dover and Pine Street Kindergartens.

MR. THOMPSON.—Moody, Pond Street, High Street, Sycamore Street, Moody Kindergarten.

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### ASSIGNMENT OF EVENING SCHOOLS.

MR. EVERETT.—High, Mann, Railroad Street.

MR. SWAPP.—Bartlett, Green, Pawtucket.

MR. MARSTON.—Varnum, Aiken Avenue.

MR. DUNCAN.—Edson, Colburn, Manual Training.

MR. HANLON.—Butler, Franklin.

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ARTHUR K. WHITCOMB, Superintendent of Public Schools.

Office in City Hall.

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OFFICE HOURS.—One hour after the forenoon session of schools and from 2 to 3 o'clock on Saturday afternoon.

Telephone 566-4.

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School Supply Room.

Open 8 A.M. to 12.30 P.M. and 1 to 5 P.M.

Telephone 506-4.



ORGANIZATION  
OF THE  
SCHOOL COMMITTEE, 1903

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ANDREW G. SWAPP, President.

ARTHUR K. WHITCOMB, Secretary.

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Ward 1—	WILLIAM W. DUNCAN, 56 Hildreth Bldg.	Term expires	1903
“ 2—	JOHN J. HANLON, 169 Broadway	“ “	1903
“ 3—	OTIS ALLEN, 226 Merrimack St.	“ “	1904
“ 4—	WILLIAM F. REGAN, 79 Kinsman St.	“ “	1903
“ 5—	DENNIS J. MURPHY, 33 Tyler St.	“ “	1904
“ 6—	JOSEPH N. MARSTON, 159 Middlesex St.	“ “	1904
“ 7—	ANDREW G. SWAPP, 307 Pawtucket St.	“ “	1903
“ 8—	CHARLES W. TAYLOR, 17 Kirk St.	“ “	1904
“ 9—	ALBERT G. THOMPSON, Lowell Post Office.	“ “	1903



### STANDING COMMITTEES.

ON TEACHERS AND SALARIES.—Messrs. Swapp, Duncan, Murphy.

ON BOOKS AND SUPPLIES.—Messrs. Marston, Taylor, Allen, Hanlon  
Regan.

ON EVENING SCHOOLS.—Messrs. Duncan, Swapp, Marston, Taylor,  
Hanlon.

ON HIGH SCHOOL.—Messrs. Swapp, Allen, Marston, Murphy, Regan.

ON EVENING DRAWING SCHOOLS.—Messrs. Taylor, Thompson, Regan.

ON MUSIC.—Messrs. Murphy, Duncan, Allen.

ON REPORTS AND PRIVATE SCHOOLS.—Messrs. Duncan, Thompson,  
Hanlon.

ON ACCOUNTS.—Messrs. Allen, Marston, Regan.

ON SCHOOL HOUSES AND HYGIENE.—Messrs. Taylor, Murphy,  
Thompson.

ON RULES.—Messrs. Thompson, Swapp, Hanlon.

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### ASSIGNMENT OF SCHOOLS.

MR. DUNCAN.—Edson, Eliot, Kirk Street, Cottage Street.

MR. HANLON.—Green, Worthen Street, Cheever Street, Morrill,  
Worthen Street Kindergarten.

MR. ALLEN.—High, Lincoln, Howard Street, Grand Street, Plain Street,  
Lincoln and Plain Street Kindergartens.

MR. REGAN.—High, Butler, London Street, Weed Street, Agawam  
Street, Carter Street, Lyon Street, Agawam Street and Chapel  
Street Kindergartens.

MR. MURPHY.—High, Charles Street, Central Street, Ames Street,  
Fayette Street, Charles Street Kindergarten.

MR. MARSTON.—High, Varnum, West Sixth Street, Tenth Street, Lake-  
view Avenue, Billings Street, Varnum Kindergarten.

MR. SWAPP.—High, Bartlett, Pawtucket, Training, Cross Street, Cabot  
Street, New Moody Street, Lexington Avenue, Pawtucketville  
and Bartlett Kindergartens.

MR. TAYLOR.—Highland, Franklin, Dover Street, Powell Street, Pine Street, Middlesex Village, Franklin, Dover and Pine Street Kindergartens.

MR. THOMPSON.—Moody, Pond Street, High Street, Sycamore Street, Moody Kindergarten.

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### ASSIGNMENT OF EVENING SCHOOLS.

MR. DUNCAN.—High, Edson, Railroad Street.

MR. SWAPP.—Bartlett, Green, Cheever, Pawtucket.

MR. MARSTON.—Varnum, Aiken Avenue, Moody, Colburn.

MR. TAYLOR.—Mann, Worthen Street.

MR. HANLON.—Butler, Franklin.

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10 ORGANIZATION OF THE SCHOOL COMMITTEE, 1903.

**TRUANT COMMISSIONERS.**

GEO. F. STURTEVANT, JAMES KELLY, WM. F. THORNTON,  
CAMILLE ROUSSIN.

Office in City Hall, Third Floor.

OFFICE HOURS.—Saturday, 2 to 3 o'clock P.M. Other days 4 to 5 o'clock P.M., except during the summer vacation, when the office will be open from 9 to 10 o'clock A.M.

**REGULAR MEETINGS OF THE SCHOOL COMMITTEE.**

January 26.	February 23	March 30.	April 27.
May 25.	June 29.	July 27.	August 31.
September 28.	October 26.	November 30.	December 28.

# REPORTS.



## Report of the School Committee.

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GENTLEMEN OF THE BOARD:

Your Committee on Reports, in compliance with custom and to fulfil the requirement of the Statutes of the Commonwealth, respectfully present the following:

We are in a like condition to the Committee of last year. They had no startling facts to report nor any radical changes to recommend. Neither have we. We honestly believe that all connected with the School Department have been faithful and that efficient service has been rendered.

We feel that our report is rather one of custom than of service, giving very meagre information, and not to be compared with the fuller reports which the Superintendent of Schools presents from time to time during the school year.

In looking over the school field in this city we find to some extent what stands out pre-

eminently in many of the larger cities of the country, namely,—a need of more school-houses.

Need in school (as in other) matters may indicate prosperity or adversity. We feel that in the present case it indicates the former, inasmuch as it is directly due to the increased population, which increase is in turn attributable to the general prosperity of the manufacturing and mercantile concerns within our borders. Immigrants do not flock to a locality in which business is at a standstill.

Newcomers are arriving amongst us from all quarters of the earth. That they may tarry with us we must accommodate them. We must erect more buildings in which to lodge them and must have more school-houses in which to educate them and their children.

Many of the schools at the present time are crowded. Last year in one locality there were 115 pupils in a single room. This locality has been temporarily relieved by the erection of a temporary annex, but in a year's time the conditions will be much the same as last year, so rapid is the increase of population in this district. Other districts are in nearly the same predicament as the one mentioned.

The school committee waste not one penny of the money voted them, and we feel that it



would be gratifying to them if the public would investigate this matter of school-houses.

Respectfully,

JOSEPH N. MARSTON,  
JOHN J. HANLON,  
CHARLES L. SWEETSIR.



# REPORT OF THE SUPERINTENDENT OF SCHOOLS.

OFFICE OF THE SUPERINTENDENT OF SCHOOLS,

DECEMBER 31, 1902.

GENTLEMEN OF THE SCHOOL COMMITTEE:

In accordance with your rules, I have the honor to submit the following as my report for the year 1902:

## SUMMARY OF STATISTICS.

Value of real and personal property .....	\$71,894,907
Population by census of 1900. ....	94,969
Number of polls .....	24,520
Decrease for the year .....	539
Number of children between five and fifteen years of age, Sept. 1, 1902 .....	14,437
Ward One, 988; Ward Two, 1244; Ward Three, 1485; Ward Four, 1614; Ward Five, 1090; Ward Six, 1806; Ward Seven, 2904; Ward Eight, 1800; Ward Nine, 1506.	

Number of public schools .....	46
One High, nine Grammar, thirty-three Primary, two Mixed, one Training.....	
Number of Kindergartens.....	13
Number of public school buildings.....	53
Number of school rooms in actual use .....	281
High, 30; Grammar, 114; Primary, 119; Mixed, 4; Kindergarten, 14.	
Number of elected teachers Dec. 31, 1902....	300
Absent on leave, 2; in actual service.....	298
High School, ten men, twenty-three women.	
Grammar Schools, nine men, one hundred three women.	
Primary Schools, one hundred nine women.	
Training School, ten women.	
Mixed Schools, four women.	
Kindergartens, twenty-five women.	
One supervisor of Kindergartens.	
One teacher of drawing.	
One teacher of music.	
One teacher of sewing.	
One military instructor.	
Number of teachers of Evening Schools, term of 1901-'02 .....	151
Whole number enrolled in Evening Schools, term of 1901-'02.....	4,009
Whole number enrolled in Day Schools.....	12,776
Average number belonging to Day Schools....	10,491
High, 811; Grammar, 4510; Primary, 4586; Mixed, 127; Kindergarten, 457.	

Average attendance .....	9,514
High, 789; Grammar, 4161; Primary, 4089; Mixed, 115; Kindergartens, 360.	
Average number belonging to each teacher.....	34
High, 28; Grammar, 36; Primary, 38; Mixed, 32; Kindergartens, 18.	
Average belonging to each room.....	37
High, 28; Grammar, 40; Primary, 39; Mixed, 32; Kindergarten, 32.	
Average per cent. of attendance .....	90
High, 95; Grammar, 92; Primary, 89; Mixed, 90; Kindergarten, 79.	
Average cost of each pupil, for tuition only, based on the average number belonging.....	\$20.00
High, \$39.78; Grammar, \$18.85; Primary and Mixed, \$15.58; Kindergartens, \$27.03.	

## RECEIPTS AND EXPENDITURES.

## RECEIPTS.

Appropriated and assessed in January, 1902...	\$275,000.00
Appropriated and assessed in December, 1902.	9,654.98
Receipts, Rebates, etc .....	25.02
Total standing to credit of schools...	<u>284,680.00</u>

## EXPENDITURES.

Paid to teachers of day schools :—

High School .....	\$ 32,060.05
Grammar Schools—Bartlett School, \$ 8,614.29	
Butler      “      11,495.01	
Edson      “      8,377.65	
Green      “      8,502.82	
Highland   “      11,348.34	
A. Lincoln   “      7,317.70	
Moody      “      6,732.54	
Pawtucket   “      5,301.68	
Varnum      “      11,192.55	
	<hr/>
	78,882.58
Primary and Mixed Schools .....	70,509.58
Training School .....	12,735.54
Kindergartens .....	12,353.50
Special Teachers .....	3,300.00
Vacation Schools .....	881.00
	<hr/>

Total paid for instruction in day schools, \$210,722.25.

Evening Schools :—

Teachers .....	\$14,049.25
Janitors .....	1,563.75
	<hr/>
	15,613.00

Drawing School :—

Teachers .....	\$ 4,152.50
Janitor .....	87.50
	<hr/>
	4,240.00

Cost of supervision :—

Salary of Superintendent of Schools \$ 3,000.00	
Office Assistant .....	500.00
	<hr/>

*Amounts carried forward* ..... \$ 3,500.00 \$230,575.25

<i>Amounts brought forward...</i>	\$ 3,500.00	\$230,575.25
Truant officers (four).....	4,100.00	
Assistant in supply room.....	548.25	
	<hr/>	\$ 8,148.25

Total of salaries..... \$238,723.50

Fuel .....	\$10,727.24
Water.....	1,368.65
Gas for day schools.....	350 58
Gas for evening schools.....	992.46
Bill of Superintendent of Public Buildings for repairs.....	2,105.30
Repairs, furniture, curtains, etc....	1,598.37
Text books.....	6,495.56
Writing and drawing books, etc...	4,173.94
Supplementary reading.....	2,447.60
Bill of Middlesex County, board of truants .....	3,430 50
Manual training equipment, etc....	503.26
Printing, including annual report..	1,290.25
Kindergarten equipment and supplies	542.76
Supplies, Manual Training School..	453.57
Janitors' supplies.....	1,493.72
Board of horses, repairs of wagons, etc	803.65
Power for ventilating purposes .....	1,533.79
Electric lighting.....	708.49
Rent of telephones .....	170.00
Material for sewing classes .....	310.95
Apparatus and material for High School Laboratories.....	244 67

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*Amounts carried forward....* \$41,745.31 \$238,723.50



<i>Amounts brought forward...</i>	\$41,745.31	\$238,723.50
High School regiment.....	700.60	
High School graduation .....	187.30	
Evening High School graduation..	53.25	
Training School graduating exercises	75.25	
Rent of Room and Land... ..	316.00	
Equipment of Commercial Dept...	1,186.48	
Vacation Schools .....	533.33	
Miscellaneous .....	1,158.98	

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Total of bills.. .....	\$	45,956.50
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Total expenditures.....	\$284,680.00
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### SCHOOL-HOUSES.

#### RECEIPTS.

Appropriated and assessed .....	\$53,816.93	
Received from other sources.....	4,424.70	
Total. ....		58,241.63

#### EXPENDITURES.

Janitors .....	\$32,186.80	
General repairs and labor.....	25,866.40	
Total.....		58,053.20

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Transferred to Treasury Fund.....	\$	188.43
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## SCHOOL CENSUS AND ATTENDANCE.

The census of children of school age in the city, taken in September, 1902, recorded the names of 14,437 children between five and fifteen years of age, of whom 4226 were put down as attending private schools. The census record was less than that of the year before by 56 and less than that of 1900 by 173. As the number of polls in the city decreased 539 in 1902, following a decrease of 778 in 1901, a decrease of children was anticipated. The enrollment of pupils in the public schools in the school year, 1901-2, was 12,776, a number greater than that of the previous year by 86. The gain is very small, but in view of the decrease in polls and in the number of children in the city any increase at all is a matter of surprise as well of gratification. The population of the city is probably increasing steadily, but a large proportion of the newcomers are Greeks and others, who rarely bring children of school age, and French, whose children very generally attend the parochial schools, where their own language is spoken, so that the number of children in the public schools increases but slowly, if at all. Owing to the unusual prevalence of contagious diseases like measles, whooping cough, etc., to say nothing of more serious diseases, like small-pox, scarlet fever and diphtheria, attendance was less regular than usual, and the average number belonging and average attendance are both slightly less than in 1901.

In the number of school rooms in use and in the number of teachers employed there has been a small increase, with a corresponding decrease in the average number of pupils in a room, which has fallen from 39 to 37, and in the average number of pupils to the teacher, which has fallen from 36 to 34. This will be considered

a cause for rejoicing by the many who believe that our usual number of pupils to the room or teacher is much too large, but will not be quite as pleasing to those who see teachers, and therefore salaries and other expenses, increasing, while the number of pupils in the schools remains much the same.

In taking the census of school children this year, the truant officers were assisted by Mr. Williams, the supply room assistant, while one of their number, Mr. Thornton, was relieved from duty as a census taker, and was thus able to give his whole time to the regular work of his office. This was a distinct advantage in the care of truants and absentees, and the only one to suffer was Mr. Sturtevant, who had to look after supplies in the busiest six weeks of the year without an assistant. The same plan will probably be followed next year, and masters and principals are again urged to present their orders in June or July for supplies for the September term, a course which must tend greatly to their own advantage as well as to the comfort of the supply agent.

## APPROPRIATIONS AND EXPENDITURES.

The amount appropriated and expended for the support of the public schools in 1902 was \$284,680. This is a sum considerably less than had been anticipated, a fact due to the impossibility of making the usual purchases of coal in the early summer. For fuel, an expenditure of \$19,000 had been estimated, and requisitions were made for coal as usual in May. None could be obtained, however, and we kept our money at the expense of empty coal bins. When the schools opened in September most houses had in them a little coal left over from the supply of 1901, but a few had none at all. For these

coke was ordered to the amount of about 600 tons. It made a very satisfactory fuel, but, unfortunately, we were able to get but 130 tons before this source of supply was also exhausted. Soft coal, which was at that time still obtainable at reasonable prices, was then purchased, and 442 tons of buckwheat coal, a very fine anthracite, was procured to mix with it. The two together made a first class fuel for those houses heated by steam, but it was then supposed to be impracticable to burn it in stoves or furnaces. All the hard coal left over in houses heated by steam was, therefore, taken out and moved to other houses which were not as well fitted to burn anything else. Later, this supply ran low, and it was found that under stress of necessity some things could be done which had not been supposed possible, and janitors began the burning of soft coal in furnaces also. As the year closes it is being burned everywhere except in stoves, and we are only, or at least mostly, troubled because it has become so scarce and so high. However, so far every house has been provided with fuel, and we have not been forced, as has been the case in many cities, to close any schools for lack of fire. Nor have the prices so far been very high. The coke, 130 tons, cost, delivered, \$6 per ton; the buckwheat coal, \$5.05; and the soft coal, 593 tons, \$5.85 a ton. Just as the year closed about twenty-five tons were purchased at higher prices, but the average, as may be seen from the figures just given, has been very low when the scarcity of coal in the market is taken into account. For the fact that we have had coal at all, and that we have had it at such reasonable prices, thanks are due to the purchasing agent, Mr. Rourke, and the school supply agent, Mr. Sturtevant, both of whom have managed the coal situation with great skill and discretion,

From the use of soft coal some discomforts have arisen, it is true, but janitors have usually made the best of conditions which were often not wholly to their liking, and for the most part the school houses have been well and comfortably warmed.

Our requisitions last May called for 2940 tons of coal; we had received, up to December 31, 1193 tons, leaving a shortage of about 1700 tons to be purchased in 1903 in addition to the normal supply for that year. We have expended for fuel of all kinds about \$10,000 in 1902, this sum including payments for 443 tons of coal delivered between January and June; the expenditures for fuel in 1903 can scarcely be less than \$30,000 and may be much more than that sum. The total expenditures of the school department will, therefore, be correspondingly increased. We begin the year 1903 with seven more teachers than were employed January 1, 1902, thus necessitating a considerable increase in the salary account, and altogether \$309,000 will be asked for in 1903, and will all be needed if the schools are to be kept at their present standard.

## SCHOOL HOUSES.

For the first time in many years an annual report must appear in which there is no record of any expenditure for new school houses. In 1901 there was only the record of the last work on the High School Annex and the \$1500 temporary building on Lakeview Avenue, but in 1902 there is nothing at all to record. In the meantime, needs increase and require mention, though a statement of them is a more than twice told tale.

The Varnum school house now has all its rooms full and has two overflow classes in its assembly hall. When

relief was asked for last year it had but one class in the hall; the second one was added last September, and where the third, which will soon be needed, can be placed is a puzzle no one has yet been able to solve. At Lakeview Avenue, both rooms of the temporary house are now occupied, and these children, too, should be transferred to a permanent building. The need here, as stated last year, is for a large house in the center of the western half of Centralville. Eight rooms will do for the present, but three times that number will be needed there sometime, and should be planned for from the start.

At the Highland, too, the one overflow room in the assembly hall has expanded into two, and this is the limit of growth in this direction. The building is unreasonably crowded, and needs relief at once. Unlike the Varnum, which stands at one side of its district, the Highland is very near the center of the section from which its pupils come, and can, therefore, best be relieved by an addition to the present building. This addition should be in the rear of the present house, and should consist of eight rooms. There is some sentiment in the ward in favor of erecting another house, beyond Parker street, far to the west of the present building. Such a house would draw scholars from the Lincoln, which does not need relief, far more than from the Highland. It would require the election of another master, at an annual expense of \$2000, and would require more janitor service, a larger expense for heating, etc. The form of relief, however, is a fair matter for consideration and settlement by those most interested; the essential thing is that relief of some kind shall be provided, and that it shall be done soon.



The Lincoln school house now has all its rooms occupied, and has one class and teacher in what was intended for an office or teachers' room. The building is so filled, however, only because there are in it about one hundred primary pupils who belong elsewhere, the most of them at the Grand Street house. The latter house is the poorest, as it is one of the oldest, in the city. It should be discontinued, and the pupils of its two rooms, together with those now in the Lincoln, should be sent to a new house to be erected somewhere near the center of the district. The Howard Street house of two rooms, is a good building above the first floor, but its basement has long been objectionable and is not likely to be improved. The house, too, is at one side of the district in which the pupils reside, instead of in the center where it ought to be. If it were discontinued, its two rooms, added to the two at Grand Street and the two in the Lincoln, would make six rooms full of pupils ready to enter a new house as soon as it could be opened. To provide for a little of the large growth sure to come in this section a building of at least eight rooms should be erected, whether the Howard Street school is closed or not.

The school houses of the city are generally in good condition, better, I think, than ever before. The furniture is certainly in better shape than I have ever seen it. For many years superintendents of buildings have assumed that the repair of the buildings belonged to them but that the repair of furniture, school seats, desks, etc., belonged to the school department. The latter body did not accept this view of the matter, and were very reluctant to enter upon the work of renovating furniture. It thus happened in many cases that a school building



would be repaired, the ceilings tinted, its wood work painted or varnished to make the whole look like a new room, while the furniture would be untouched and sadly out of harmony with its surroundings. In the last two years, however, Superintendent Gillow has made a direct attack on furniture, and has re-planed or scraped and then shellacked and varnished a large part of all the old furniture in all our schools, making it look as well as new furniture would look. The improvement is very great, and teachers and pupils are, as they ought to be, correspondingly grateful. In tinting walls, a shade of green was used for the first time last summer, and appears to give general satisfaction. Ceilings should be a warmer tint and one which reflects light better, but for walls green seems to be as restful for the eyes as any color which has been tried in Lowell.

The heating plant of the Carter Street school house, about which there has always been much complaint, a just complaint in my opinion, was changed somewhat in the Christmas vacation—rather late in the year, but better late than never. Naturally the effects of the improvements have not yet been noted, indeed I believe the changes have not yet been completed, but it is devoutly to be hoped that the changes and additions will be a success.

## SCHOOLS AND TEACHERS.

Following are the changes in the roll of teachers:

DIED.	Term of Service.
Rose Donnelly, of the Agawam Street School.....	6 years

## RESIGNED.

John A. Donovan, of the High School.....	4	“
W. Ernest Everett, of the High School.....	3	“
Mary Hussey, of the High School .....	3	“
Nellie A. Coburn, of the Highland School.....	16	“
Katherine J. Lawler, of the Central Street School	17	“
Effie I. Marshall, of the Pawtucket School... ..	15	“
Frances M. Spooner, of the Bartlett Primary.....	4	“
Josephine A. Gould, of the Varnum Kindergarten	5	“
Mary J. Carmichael, of the Weed Street School..	9	“
E. Blanche Brigham, of the Lincoln School.....	1	“
Carrie M. Sprague, of the Highland School.....	12	“
Therese F. Donoghue, of the Butler School.....	5	“

## TRANSFERRED.

Elizabeth A. Page, from Lakeview Avenue to Worthen Street.

Anna A. Burnham, from the Lincoln to the Highland.

Addie E. Edwards, from the Highland to the Training School.

Sadie F. McCort, from the Worthen to the Green School.

## ELECTED.

Adelaide E. Sweetsir, to the High School.

Sara E. Ames, to the Bartlett Primary.

Edward Ketchum, to the High School.

Mirion H. Milner, to the High School.

Margaret V. Spear, to the High School.  
Elsie Ryder, to the High School.  
Ernest M. Hunt, to the High School.  
Anna I. Cassidy, to the New Moody School.  
Mary L. Crowley, to the Highland School.  
Elizabeth B. Dame, to Sycamore Street.  
Sadie M. Deane, to the Lincoln Primary.  
Mary F. Devine, to the Weed Street School.  
Alice I. Gookin, to the Lincoln School.  
Margaret G. Hyde, to the Butler School.  
Katherine M. Jantzen, to the Butler School.  
Charlotte C. Walsh, to the Pawtucket School.  
Mary E. Thomas, to the Varnum School.

In the last twelve years there has been but one annual report of the school committee, that of 1897, which did not record the death of a teacher. In that time four reports have recorded the death of two, making a total of 15 in the twelve years. The one death which occurred in 1902, that of Miss Donnelly of the Agawam Street school, took from us one of our younger teachers, but one whose faithful attention to duty had won the regard of all who knew her.

Of those who resigned, Mr. Donovan did so to engage in business, Mr. Everett to study law, Miss Hussey as a partial relief from double labors with us and at the Normal School, Misses Coburn and Spooner to accept more desirable positions as teachers elsewhere, and all the rest to marry. All were good teachers, and all carry with them to their new positions the esteem and regard of those who remain.

Of teachers absent on leave last year, one, Miss Coburn, has resigned, two, Misses Keese and Everett, have resumed teaching, and the other two, Misses Magoon

and Blandin are still in the Philippines. Both have been promoted, with increase of salary. Miss Magoon is now teaching in a normal school at Iba, Zambales Province, Luzon, and Miss Blandin, who is at Laoag, the third city of the islands, is the American teacher in charge of the largest school of the city or province.

## HIGH SCHOOL.

The curriculum of the High School has been enlarged this year by the addition of shorthand, typewriting and free-hand drawing, and the course in elocution has been strengthened by the employment of a teacher who will give her whole time to the school, in the place of one who only gave two days a week to it. The employment of a teacher of drawing was made necessary by the fact that the normal school, for which so many students are preparing, requires drawing as an admission subject. The High School, therefore, felt bound to offer the instruction needed in this branch, and did so by employing a competent teacher one day per week. He has large classes, and his work is progressing favorably.

The shorthand, though first taught in September, had been planned for two years before as a part of the commercial course which was opened in 1900. The school committee selected the Gregg as the system to be taught, secured a teacher of ability and experience, and were rewarded by finding a class of 106 students ready to take up the work when the fall term opened. Of these fifty-six were third year students in the commercial course, and the rest were upper class students in other courses, who elected shorthand in the place of some other study, and postgraduates. Five others joined the class at later dates, and seven have left it, leaving a member-

ship December 31 of 1904. Of those who left the class all, or nearly all, did so because they were leaving the school and only one, so far as the teacher knows, left it from discouragement or inability to do the work. This is a very fine record for a class in shorthand, confessedly a very difficult subject and one for which many have no aptitude.

It should be noted that the commercial course is one of four years; that shorthand and typewriting have a place in the last two; and that it was not intended that a working knowledge of these subjects should be gained in one year. Had the whole emphasis of the year been placed on these subjects, and had they been pretty well mastered in it, there was reason to fear that students would not return for a fourth year. The commercial course was arranged, not to give students a little penmanship, book-keeping, shorthand, etc., and then send them out to seek for positions, but to give general knowledge, mental discipline and culture equal to that of any other course. Its work in English, for instance, is precisely the same as that required in preparation for the best colleges, and this is but an example of what is expected of students in all subjects.

It is considered of the greatest importance, therefore, that students at graduation should have the maturity, the training and the knowledge of culture subjects which only a four years' course can give. In the third year, stenography and typewriting, therefore, take only a secondary place. Each is really but a half study, for the two together count as but one subject of the three and one-half assigned for this year. But one teacher is employed for both subjects, and he has more than one hundred students in his classes. And yet the interest cer-

tainly is great and the progress, so far as can be determined at so early a date, has been excellent. The pupils will finish the text book long before the end of the year, and have already developed considerable speed in text book dictation. They have been exercised in accuracy rather than speed, so that exact figures as to rates of writing on general dictation are not yet obtainable. Touch type-writing is taught on machines with blank keyboards, and although the time given to this exercise is very short, good progress is being made. Students are allowed to do unsupervised work in their spare hours, if they have any, and the interest is so great that most members of the class contrive to get in a little practice every day, thus greatly helping out the otherwise very insufficient time allotted to the work.

Of the present class a considerable number will graduate at the end of the school year; others will doubtless fall out from choice or necessity; the post-graduates are not likely to return, and altogether a class of fifty will be as large as can be expected to return in September, 1903. The class to begin the subject next year will also be less in number than the one which entered last September, not being open to the same recruiting from students of other courses as was the present class, but it may safely be counted on to number from seventy-five to one hundred. With two such classes, therefore, one of advanced students and one of beginners, another teacher will be a necessity.

The equipment for typewriting, by the way, consists of one Oliver, two Hammond, four Smith-Premier, eleven Underwood and thirteen Remington machines. About one-half are new, but some are very old, having been purchased when typewriting was first taught in the evening



School a dozen or fifteen years ago. The latter will quite likely need to be replaced by newer ones next year.

Certain statistics relating to subjects and courses in the High School which were compiled by the head master last June in response to a request of the National Bureau of Education are of interest. Some of the items were the following:

Number of students in the classical course, male, 37; female, 135; number in modern language course, male, 39; female, 108; business course, male, 121; female, 141; manual training course, male, 98. The number of students known to be preparing for college was as follows: College classical course, male, 69; female, 52; college scientific, male, 60. Of those preparing for a classical course in college 27 young men and 13 young women were taking Greek; the others were taking the Latin only. The division of students on the basis of subjects studied was as follows: Latin, male, 118; female, 180; Greek, male, 21; female, 18; French, male, 162; female, 236; German, male, 20; female, 46; algebra, male, 182; female, 145; geometry, male, 60; female, 64; trigonometry, male, 13; astronomy, male, 13; female, 39; physics, male, 88; female, 86; chemistry, male, 55; female, 41; physical geography, male, 76; female, 56; geology, male, 13; female, 29; botany, female, 30; physiology, male, 28; female, 70; English literature and rhetoric (compulsory in a half course if not taken as a full course,) male, 416; female, 480; history other than U. S., male, 199; female, 247; United States history, male, 45; female, 44; commercial law, male, 54; female, 54; bookkeeping, male, 121; female, 141; commercial geography, male, 53; female, 57; manual training, male, 98. Drawing, taken only with manual training, male, 98.



As the commercial course was only two years old when these statistics were prepared the number of students recorded as taking subjects in that course was much less than would be the case if the count were taken now. Drawing, too, would now be found to have at least 125 more votaries than it had last June, and to the list of subjects stenography and typewriting should now be added, with 104 students taking each subject.

The annual report of the Superintendent of Schools for 1891 made an earnest plea for a commercial course in the High School. Nine years of waiting followed, and then the course, a good one, came in 1900. The time now seems fitting for the beginning of an agitation for three other courses, which are, I believe, sure to come sometime, though it may be more than nine years before they are all in successful operation. I refer to a natural science course, a domestic science course, and an art course.

For the physical sciences,—chemistry and physics,—we have well-equipped laboratories, strong teachers and good courses. For some of the natural sciences we have good teachers, but we are sadly lacking in equipment, and we have no systematic course, yet the trend of modern education is very strongly in the direction of laboratory work in botany, zoology, physiology, astronomy, etc., with elaborate and extensive modern equipment. This trend is stronger and the demand is being better met at the West than at the East. For the study of botany, for instance, I remember hearing President Eliot speak of seeing a class room with forty-five compound microscopes, one for each desk or student, in one of the smaller western cities. If any city in Massachusetts has such a room, I am not aware of it. The colleges are, however, leading the way for better work in natural science

with great enthusiasm and success. Such college courses are being taken by a constantly increasing number of students, and it is only a matter of time when the high schools will move in the same direction. And the sooner such a movement is begun in Lowell, the better. It will be expensive, as all laboratory courses are, and the present may not be an opportune time to press it, but it is certainly time to begin to think of it and to plan for it.

When we remember that more than half of the students of our high school will probably spend the most of their lives in the practice of the arts of domestic science, it does seem a little remarkable that the schools should do nothing at all to increase their stock of knowledge on the subject, and should give them no training at all along the line which is to be their life work. That many students would elect such a course if it were open to them is made more than probable by the eagerness with which girls have availed themselves of the opportunity of attending our vacation school in cooking. It has, indeed, been a matter of amazement to me to see girls choosing to spend their vacation in a hot kitchen in the hot weather of July, coming with almost perfect regularity and working with the greatest interest and zeal. And that which girls are so eager to do in vacation they would, no doubt, be still better pleased to do in term time, if the opportunity were offered. Such a course as a high school should offer should be thorough and systematic. Like the manual training and commercial courses, it should contain many culture studies, and should give as much mental discipline as any other. In its special line, it should include all the domestic arts, with thorough study of nutritive values and the chemistry of foods, as well as of the preparation of the same for the table. The very

excellent two years' course of the Framingham Normal School offers valuable suggestions as to what we should have in Lowell, and many things might also wisely be copied from similar courses in Pratt and Drexel Institutes. While we might not be able to do all that is done in those very wealthy institutions, we certainly are able to give our girls a course of great practical interest and value, and it is none too soon to begin to plan when, where and how to do it.

The progress of all the great nations of the world in civilization and enlightenment has always been measured by their progress and their attainments in art. Ripe culture has everywhere reflected itself in artistic excellence. As a practical people we have sought practical rather than esthetic uses for the art power we have possessed, but its great value for both uses is unquestioned. Our own evening drawing and art schools give a hint of what we should transplant to our high school, and the normal art school at Boston is a better exemplification of what we should try to do. The Art High School of Worcester occupies the city's newest and finest school building, and I confess I could not look upon it without envy. For Lowell I covet its duplicate, or if possible a better. I confess that I do not see how the city can at present erect the building which shall provide for all the courses I now suggest. Other cities have been fortunate enough to have some wise and liberal citizen give buildings adequate to such uses; if Lowell has any one looking for the best place in which to bestow money for public and educational uses I believe he can find no better method of disposal than to build for our High School the house it so much needs. And in the lack of private beneficence the public, and especially that part of the

public directly interested in education, should begin without delay to consider how we can do the thing which should be done.

The graduation exercises of the High School were held in Huntington Hall, June 23. In accordance with custom the programme, the names of the graduates and the Carney medal scholars are given. In compliance with a recent vote of the school committee the names of the "Honorable Mention" scholars, those who have averaged 90 per cent. or more on all their studies during their course, are also printed.

## ORDER OF EXERCISES.

- 1 — CONCERT OVERTURE. "Hungarian Lustspiel"  
*Keler Beler*  
HIBBARD'S ORCHESTRA.
- 2 — MARCH. "Prince Henry" - - - *Eilenberg*  
HIBBARD'S ORCHESTRA.
- 3 — CHORUS, "March Onward" - - *Geibel*
- 4 — SALUTATORY. A Dream of Women of the Old Testament.  
HELEN HUTCHINSON STEARNS.

## 5 — QUARTETTE.

a. "The Rustic Dance" - - - *Johann Resch*

b. "The Night Has a Thousand Eyes"

*Ethelbert Nevin*

MISSSES STELLA I. WILSON, STEPHENS,  
LEIGHTON, and IDA WILSON.

## 6 — PRESENTATION OF PICTURE by Editors of High School Review.

MISS AMY GLADYS BENT, President.

PRESENTATION OF BAS-RELIEF by Class of 1902.

TOWNSEND CORDELL HILL, President of Class of 1902.

## ACCEPTANCE FOR THE SCHOOL.

MR. WILLARD EVERETT, President of School Board.

7 — SEMI-CHORUS. "The Mill" - - - *A. Jensen*

SOPRANO — MISSSES WILSON, GARDNER, EMERSON, SALMON,  
ROUSSIN, HART, COBURN.

ALTO — MISSSES WILSON, STEPHENS, WHITE, JOHNSON,  
DOWNEY, UPTON, DONNELLY, CASSIDY, LEIGHTON.

TENOR — MESSRS. FINNEGAN, COBURN, PATTEN, WEBSTER.

BASS — MESSRS. TARR, SANDERS, SHERWELL, MASTER,  
PARKER.

## 8 — ADDRESS.

REV. DR. GEORGE W. BICKNELL.

## 9 — SELECTION FROM THE OPERA FLORODORA.

*Stuart*

HIBBARD'S ORCHESTRA.

## 10 — VALEDICTORY. Heroes, Ancient and Modern.

HENRY WIGHTMAN PACKER

## 11 — QUARTETTE AND SOPRANO OBLIGATO.

"Hie Thee, Shallop" - - - *Kucke*

MESSRS. FINNEGAN, WEBSTER, SANDERS, TARR,  
MISS STELLA I. WILSON.

## 12 — PRESENTATION OF CARNEY MEDALS.

HONORABLE MENTION made of those who have  
attained a scholarship rank of 90 per cent.

SUPT. A. K. WHITCOMB.

## 13 — CHORUS. "The Village Blacksmith."

*Charles F. Noyes*

## 14 — PRESENTATION OF DIPLOMAS.

HIS HONOR THE MAYOR, WILLIAM E. BADGER.

## 15 — SINGING OF CLASS ODE.

Words by MABELLE LOVETT GARDNER.  
To Music of Hamburg.

Surely and swiftly the hours have departed,  
'Tis with reluctance we reach this last day  
That closes our school life and sends us to conquer  
Numberless foes we shall meet in life's fray.

Many and dear are the mem'ries we cherish,  
Classmates and teachers we cannot forget;  
Though we are proud of our duties completed,  
The moment of parting brings heartfelt regret.

Life in the future we can but imagine.  
Joy and delight each success will attend;  
Sorrow may often o'ercloud our rejoicing.  
Still, through the gloom, we will "look to the end."

While we endeavor our aims to accomplish,  
Trusting each day in our Father above,  
May He be with us in sunshine and shadow,  
Guarding each life with His presence and love.

16 — MEDLEY OF POPULAR SONGS. - - - *Beyer*

HIBBARD'S ORCHESTRA.

### Graduates — 1902.

#### FIVE YEARS' COURSE.

Horace Butterfield Coburn	Florence Reynolds Foote
Henry M. McCue	Ann Elizabeth Haggerty
Manrice George Perkins	Lucia Belle Johnson
Lester George Richardson	Catharine Cravath Whitaker
Reginald Herbert Sheldon	

#### FOUR YEARS' COURSE.

Gny Stanley Abbott	James Aloysius McDermott
George Washington Barris	Henry Wightman Packer
Edwin Alonzo Brown	Theodore Ludwig Pearson
Charles Joseph Callahan	John Edward Sexton
Harry Warner Coburn, Jr.	Ralph Henry Shattuck
Clarence Allison Dana	Bennett Silverblatt
Clarence Benjamin Davis	Ralph Coburn Smith
Orlando Chester Davis	Carl Winslow Stocks
William Charles Dwyer	Frederick Strass
Grover Cleveland Fels	Harold Eugene Tarr
Frank Everett Fleming	Arthur Scott Thomas
Clarence Jilette French	Arthur Louis Traversy
Philip Joseph Garrigan	Orrin Arthur Wing
Daniel Elmore Gray	Luella Minette Bailey
John Francis Haley	Alice May Bean
Townsend Cordell Hill	Amy Gladys Bent
George Foster Hobson	Marion Bennett
Stephen Kearney	Mary Agnes Brown
James Joseph Morris	Mary Elizabeth Gertrude Cassidy
Walter Lyde McCleery	Ida Chamberlain Coburn
Minnie Eaton Coburn	Gertrude Frances Lyons
Blanche Ellen Cover	Blanche Ethel Marshall
Susan Martine Cutter	Mildred Sayles Meader
Olive Marion Emerson	Annie Louise McKissock
Daisy Crawford Farrell	Veronica Elizabeth McMahon
Ella May Fletcher	Mary Julia Moynahan
Bertha Harriet Gale	Mabel Lavina Parker
Mabelle Lovett Gardner	Elizabeth Leonora Provencher
Sarah Alice Gray	Helen Hutchinson Stearns
Ethel Lena Greenleaf	Lillian May Stephens
Mary Louise Gnyton	Violet Stocks
Eloise Baron Hills	Mary Lillian Taylor



Myrtle Eliza Hintze  
 Anna Alena Hurley  
 Christina Mary Kane  
 Mary Green Lamson  
 Almira La Fleur  
 Marguerite Lee

Lutheria Ella Thissell  
 Lottie Mae Upton  
 Annie Laurie Wainwright  
 Sarah Annette Washburn  
 Ruth Churchill Wilder  
 Anna May Wilson

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THREE YEARS' COURSE.

Edward Arthur Abbott  
 Philip Morton Battles  
 John Arthur Bennett  
 Alvah Lowell Burrage  
 William Patrick Callahan  
 George Walter Carpenter  
 Charles Royal Church  
 James Morris Corcoran  
 Freeman Shedd Crowell  
 Robert Emmet Crowley  
 William Edson Dexter  
 Joseph Raphael Donovan  
 John Cecil Farrington  
 Michael Francis Giblin  
 William Wells Graham  
 Thomas Augustine Ginty  
 Paul Jones  
 Joseph Patrick Keyes  
 William Joseph King  
 Matthew Patrick Mahoney  
 John Cornelius Martin, Jr.  
 Benjamin Joseph Maloney  
 John Luke Murray  
 Albert Ashton Ludwig  
 Richard Joseph Noonan  
 William Henry O'Meara  
 Thomas Brent Rafter  
 Stephen Joseph Reynolds  
 Ralph Holland Richardson  
 Walter Noyes Sherwell  
 Jerome Mack Sleeper  
 Harry Roger Sprague  
 Walter Stott Stanley  
 John James Starr  
 Frederick Nathaniel Trull

Lumina Isabelle Cantin  
 Mary Josephine Dalton  
 Flora Albena Davis  
 Delcine Louisa Delisle  
 Etta Nina Dexter  
 Gertrude Madelyn Eastman  
 Margaret Agnes Flanagan  
 Clara Louise Flemings  
 Mabelle Marsden Grover  
 Mary Louise Guiney  
 Gertrude Edyth Hammond  
 Jessie Gertrude Hanson  
 Margaret Alice Harrington  
 Effie Grace Higgins  
 Jennie Louise Hoyt  
 Grace Kenrick Jennings  
 Lillian Hortense Johnson  
 Pauline Harriet Kidder  
 Lillie Bertha Landry  
 Zoa Evelyn Leighton  
 Helen Sophronia Livingston  
 Edith French Maker  
 Eliza Belle McElmon  
 Ella Mildred Proctor  
 Ethel Marion Queen  
 Susie Reed Richardson  
 Elizabeth Helena Rivet  
 Annie Robitille  
 Alice Elizabeth Rogers  
 Clara Edna Rosander  
 Blanche Alice Roussin  
 Lillian Ethel Salmon  
 Bertha Mildred Smith  
 Edyth Marion Sparks  
 Louise Gertrude Spaulding

Robert Jones Tyrrell  
 Orrin Hutchins Webster  
 Claude Arnold Winters  
 Elizabeth Atwood

Lucy Sherburne Stevens  
 Gertrude Adell Sweatt  
 Grace Louise Upton  
 Katherine Mary Walsh

Hattie Belle Barrett

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#### CARNEY MEDALS.

Henry W. Packer  
 John E. Sexton  
 Paul Jones

Helen H. Stearns  
 Daisy C. Farrell  
 \* { Minnie E. Coburn  
     { Violet Stocks

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#### HONORABLE MENTION.

Bennett Silverblatt  
 Maurice G. Perkins  
 Frederic Strauss  
 Catharine C. Whitaker  
 Blanche E. Marshall  
 Margaret A. Harrington  
 Mabelle L. Gardner  
 Susan M. Cutter  
 Mary E. G. Cassidy  
 Louise G. Spaulding  
 Marion Bennett  
 Grace K. Jennings

Florence E. Foote  
 Ella M. Fletcher  
 Lucia B. Johnson  
 Anna M. Wilson  
 Lumina I. Cantin  
 Helen S. Livingston  
 Mabel L. Parker  
 Sarah A. Gray  
 Annie Robitille  
 Annie L. McKissock  
 Clara E. Rosander  
 Sarah A. Washburn

Ruth C. Wilder

\* An extra medal was given because the ranks of Miss Coburn and Miss Stocks were exactly the same.

#### PRIMARY AND GRAMMAR SCHOOLS.

The primary and grammar schools are, of course, by far the most important in the city. Not only does their attendance include four-fifths of all public school pupils, but the studies pursued in them are the essential ones. That a boy should know Greek is a good thing, doubtless, but that he should know how to read and write in

English is not merely a good thing; it is all important. Our elementary schools, however, go on the even tenor of their way with so little change that the record of their doings, or of that which is new in the doing, is very brief indeed.

In average number belonging there has been no increase in the year, and yet an increase in some sections has necessitated the opening of a few new rooms. One new room has been opened, and one new teacher employed at the Lincoln, Varnum, and Highland Schools, and assistants have been placed in rooms or corridors at the Pine Street, Lyon Street, and Tenth Street schools. In other parts of the city the number of pupils has decreased a little, but not enough to cause any consolidation of rooms or transfers of teachers.

In curriculum no essential change has been made. Subjects approved by experience are continued, and their number is such that there is small room for new ones. In text books Roddy's and the Werner Geographies have been added to the list and the purchase of Prince's and Nichols's arithmetics have been authorized for the primary schools. Carpenter's series of Geographical Readers have been added in grammar schools, and have been received with much more than usual satisfaction by teachers and pupils.

In 1902 the primary schools enrolled 5,782 children, and promoted 1,036; the grammar schools enrolled 5,169 and promoted 361.

## TRAINING SCHOOL.

The rules of the School Committee, the last edition of which, that of 1896, had been exhausted for some time, were revised and reprinted in December, 1892. The

changes made in them were for the most part only such as to make the printed rule agree with what was already practice, but the rules with regard to the Training School are in part matters of such recent action that it seems worth while to give them here. They are as follows :

“Chapter IV. Sect. 39. The Training School shall be maintained for two distinct purposes: First, to give to the children of its district as good an education as is given by other primary and grammar schools of the city; Second, to give to young ladies desiring to become teachers in the schools of Lowell an opportunity to gain experience in teaching and to prove their worth. Its supervisory and teaching force shall consist of a principal, such assistants and teachers as the Board may elect or appoint, and a still larger number of young teachers who shall be known as the “Practice Class.” The school shall be under the immediate direction of the committee on teachers, who may make for it, subject to the approval of the full board, such special rules as may be needed.

Sect. 40. As a school for children the Training School shall consist of all the grades of the primary and grammar schools. It shall do work equivalent to that of other schools of the city of the same grades, and shall give and receive certificates to and from other primary and grammar schools on terms of equality. The principal shall have, under the committee, full charge of the assistants, or critic teachers, who shall perform such duties of teaching, observation, and supervision as she may require.

Sect. 41. As an institution for the training of teachers the school shall give large opportunity to graduates of colleges and normal schools to do actual and responsible work in the instruction and control of pupils. Each

member of the practice class shall, as far as possible, be given the entire charge of a separate room for a full year, and shall do in it, under the supervision of the principal and the critic teachers, all the work of a regular teacher. Members of the practice class may also be employed as temporary and substitute teachers in the primary and grammar schools of the city, in which case they shall still have the advice and assistance of the principal and assistants of the Training School who shall visit them frequently and be prepared at all times to report upon the character of their work.

Sect. 42. Candidates for the practice class at the Training School must be graduates of a college of the first class or graduates of a normal school. The number to be received each year shall be such as will be required, in the opinion of the committee on teachers, to keep the primary and grammar schools of the city supplied with teachers. Application blanks for admission to the practice class at the Training School shall be furnished by the secretary of the committee on request, and all applications must be filed with the secretary prior to June 15 for a practice class to begin work in September of the same year. If the limited number who can be received shall make it necessary to select between applicants the basis of such selection shall be the rank obtained on a competitive examination, or examinations, to be given by the committee on teachers.

Sect. 43. The salary of the members of the practice class shall be three hundred dollars a year.

Sect. 44. Diplomas of graduation and teachers' certificates of the second grade shall be given in June of each year to all members of the practice class who, in the opinion of the principal of the school and of her

assistants, have successfully completed the course laid out for them and have proved their ability to do good work as teachers. Members of the class who fail to do satisfactory work may be given leave to withdraw at any time.

Sect. 45. When a temporary vacancy occurs in the corps of teachers of the Grammar or Primary Schools it shall be filled, if not supplied by a member of the Training School practice class, by the member of the oldest or earliest class graduated from the Training School, who, at the time of her graduation, ranked highest of those of that class who continue to be applicants for teachers' positions. In case there are no graduates unemployed at the time a vacancy occurs, it shall be temporarily filled by the Committee on Teachers who may grant special certificates to meet such emergencies, subject to the action of the Board at its next regular meeting. The election of teachers to permanent places shall follow the same order as that prescribed for the assignment of temporary and substitute teachers, but no election shall occur until there are vacancies enough to permit the election of one entire class, and when an election does occur an entire class shall be elected."

The graduating exercises of the school were in Huntington Hall, June 16, at which time 18 pupils of the school received diplomas entitling them to enter the High School, and sixteen young ladies received diplomas of graduation entitling them to teach in the public schools of the city. Of these graduates five were graduates of colleges and eleven were graduates of normal schools. Their names are given in the appendix to the report following the names of elected teachers.



## EVENING SCHOOLS.

The attendance on Evening Schools has increased considerably this year, a fact due to two causes: one that the mills are all running full time, and some of them overtime, thus attracting to the city many minors who cannot read and write in English, and who must, therefore, attend evening school to be legally employed, and the other a change in the law by which the school committee, or some agent of the same, is made the judge of a minor's qualifications in the line of reading and writing. This law has imposed a good deal of extra work upon the superintendent of schools and his assistants, mainly, Mr. Thornton and Mr. Sturtevant, but it has undoubtedly brought into our schools some hundreds of pupils who would not otherwise have attended them.

That "good times" should prevail, and that the prosperity of the city should attract to it many workers is, of course, a cause for rejoicing, but it is an open question whether large evening schools are an occasion for either pride or gratification. To a considerable extent the increase means that the newcomers to our city are unable to read and write in English. It is true that the voluntary attendance on evening schools, that is the attendance of those who have already mastered elementary work, is steadily increasing. The Evening High School, for instance, has about fifty more students today than it had one year ago, and the attendance of voluntary pupils at the Butler and other elementary schools is also larger than formerly, but the fact still remains that the principal part of the increase, outside the High School, at least, is due to attendance which is compulsory, and this compulsory attendance is mainly due to newcomers. In about three years the evening schools would practically clear off the present stock



of illiterates, and the occupation of a large majority of our evening school teachers would be gone. Unfortunately, as it seems to me, the stock is renewed as fast as it runs low, and our work of educating those who had no education, or at least no education in English, in the lands from which they came, seems to have no end.

Following is the record of attendance etc., for the last completed term of the evening schools, with names of the graduates of the Evening High School:—

## SUMMARY OF ATTENDANCE.

For the Term of 1901-2.

SCHOOLS.	Teachers and Principals at Opening of Term.	Teachers and Principals at close of Term.	Whole Number on Time Books.			Average Number Belonging.			Average Attendance			Per cent. of Attendance.
			Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
High .....	21	21	446	520	966	236	254	490	212	229	441	79
Aiken Ave .....	6	7	93	52	145	46	35	81	41	33	74	96
Bartlett .....	9	9		164	164		137	137		107	107	79
Butler .....	8	6	115	49	164	75	24	99	71	19	90	90
Colburn .....	7	6	109	68	177	43	37	80	39	35	74	90
Cheever St. ....	7	7		140	140		99	99		91	91	92
Edson .....	9	7	73	134	207	57	71	128	51	42	93	73
Franklin .....	10	7	126	75	201	53	43	96	49	38	87	83
Green .....	20	17	439		439	237		237	210		210	90
Hebrew .....	1	1	26		26	20		20	14		14	70
Mann .....	22	20	445		445	311		311	275		275	80
Old Moody .....	5	4	75	47	122	19	14	33	28	19	47	83
Pawtucket .....	2	2	38	6	44	20	5	25	16	4	20	80
Varnum .....	6	5	122	76	198	20	24	44	33	45	78	82
Totals .....	133	119	2107	1331	3438	1137	743	1880	1069	662	1701	91

## GRADUATES OF 1902.

## REGULAR COURSE, THREE YEARS.

Helen Theresa Carville.	James Joseph Fitzgerald.
Kittie Loretta Conners.	Everett Trowbridge Giles.
Nora Josephine Curtin.	Thomas Leo Golden.
Helen Theresa Daly.	John Francis Harrington.
Mary Isabel Eddy.	Francis Joseph Higgins.
Christina Elizabeth Foxcroft.	Harry Austin Hopkins.
Julia Agnes Hart.	Frank Maden.
Mary Antoinette Jalbert.	Emery Henry Maynard.
Margaret Catherine Kennedy.	George Thomas McElroy.
Lillian Frances Lynch.	Andrew Joseph McGarry.
Margaret Aloysius McGurn.	William Garduer McIntyre.
Mary Frances O'Connell.	John Augustine McKenna.
Annie Theresa Powers.	Elmer McLean.
Mary Elizabeth Qualey.	Thomas Joseph Mullarkey.
Ellen Alice Ryan.	Louis O'Meara.
Sarah Gertrude Teague.	George William Page.
Marietta Tracey.	Weldon Emerson Ramsey.
Patrick Joseph Begley.	James Francis Riley.
John Michael Cooney.	Peter Henry Rogers.
Charles Joseph Defoe.	John Edward Sullivan.
Francis Joseph Duggan.	John Francis Tarpey.

## STENOGRAPHY COURSE.

## TWO YEARS.

Lotta May Andrews.	Bessie Jane Peabody.
Sigrid Cornelia Christianson.	Annie Viola Sanborn.
Gertrude Marie Connell.	Esther Jane Stevens.
Nellie Edith Donley.	Edith Alice Wedge.
Anna Gertrude Doyle.	Alice Wood.
Anna Maria Ekengren.	Eugene Samuel Butterfield.
Theresa Agnes Gallagher.	George Washington Hammond.
Sarah Frances Graham.	John Henry Murphy.
Anna Christeen McDougal.	Hazen Gray Pillsbury.
Sarah Ann Malone.	William Grant Spence.
Lena Albertine Monroe.	

## EVENING DRAWING SCHOOL.

TERM OF 1901-1902.

CLASSES.	Number of Teachers at Opening of Term.	Number of Teachers at Close of Term.	Whole Number on Time Books.			Average Number Belonging.			Average Attendance.			Per cent. of Attendance.
			Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
Machine .....	9	9	188	.....	188	132	.....	132	103	.....	103	78
Architectural...	4	4	57	.....	57	42	...	42	31	.....	31	74
Free-hand .....	3	3	94	57	151	54	43	97	72	39	111	75
Practical Design	3	3	9	11	20	6	10	16	5	7	12	75
Modeling . ....	4	4	96	39	135	47	16	63	38	14	52	82
Totals .....	23	23	444	107	551	281	69	350	249	60	309	76

## TRUANTS AND TRUANCY.

The last report of the State Board of Education shows that the seven county truant schools of the state had in them in 1901, the latest year for which statistics are available, an average of 472 pupils. In 1901, Lowell sent to the county truant school 37 boys, and in 1902 it sent 40, facts which show that our enforcement of the truant laws, judged by the number of commitments to a truant school, is very much above the average. With the exception of Boston, indeed, there is no city which sends away as many truants, and Cambridge is the only other city that is at all in the same class with Lowell in this respect.

The truant schools of the state are county institutions, managed wholly by the county commissioners, and the

logical outcome of such an arrangement would seem to be that all the expenses of the schools should be borne by the county. Such, however, is not the case. Each city or town is charged \$52.00 a year for each pupil in the school, Lowell's payments for truants in 1902 amounting to \$3,430.00. Of course those cities which send no truants save themselves similar charges, and the practical working of the law is to punish the cities which do their duty and to reward those which do not. To remedy this injustice, therefore, and for the good of truants in cities too indifferent or too stingy to care for them if this care is to cost anything, an appeal was made to the legislature in 1901 and again in 1902 to have the whole expense of the truant schools assumed by the county, but the petitioners were given leave to withdraw. Payments will therefore have to be made by Lowell on this account in the future as in the past, and the expense will, I suppose, continue to be charged to the school department.

An attempt was also made in the legislature in 1902 to provide for girl truants, an attempt with which I am in entire sympathy. Unfortunately two bills were presented, one for a single state school for girls and the other providing for the care of girls in separate quarters in the present county institutions, and between the two nothing was done. The need of some proper place for girl truants is certainly great, and the support of all Lowell representatives in the legislature and of all good citizens should, as it seems to me, be given to any practical measure looking to their protection and care.

The report of the truant officers follows my own.

Respectfully submitted,

ARTHUR K. WHITCOMB,

*Superintendent of Schools.*

# REPORT OF THE TRUANT COMMISSIONERS FOR THE YEAR 1902.

	Absentees.	Truants.	Working without certificate.	Wandering about the streets.	New scholars.	Juvenile offenders.	Violating the rules of school.	Total number cases investigated.	Arrested.	Sent to the Middlesex County Truant school.	Placed on probation.	Prosecution of Parents.	Visited second time.	Visited third time.	Working certificates issued—(14 to 16 years of age).	Working certificates approved—(14 to 15 years of age).
January .....	310	42	0	14	8	10	0	352	5	4	1	0	65	20	140	26
February .....	298	52	0	19	5	27	0	362	5	4	1	0	67	24	134	30
March .....	264	46	0	21	3	16	0	310	7	6	1	0	85	38	131	42
April .....	279	75	0	27	12	56	0	354	5	4	1	0	68	35	135	40
May .....	265	55	0	23	5	19	0	320	7	6	1	0	30	15	132	20
June .....	173	37	0	26	0	12	0	210	4	4	0	0	25	18	148	10
July .....															135	25
August .....															135	18
September .....	113	24	0	31	12	9	0	137	0	0	0	0	14	3	165	28
October .....	191	39	0	12	0	3	0	230	6	6	0	0	29	18	215	9
November .....	223	57	0	25	8	10	0	280	6	5	1	0	30	10	150	25
December .....	201	49	0	24	3	11	0	250	3	1	2	0	20	13	130	29
Totals .....	2317	476	0	222	46	173	0	2795	48	40	8	0	433	198	2020	285

## Number of Cases of Contagious Diseases Reported to the School Department for the Year Ending Dec. 31, 1902.

SMALL-POX .....	1
DIPHTHERIA .....	350
MEASLES .....	494
SCARLET FEVER .....	67
MEMBRANEOUS CROUP .....	8
TYPHOID FEVER .....	7

# COURSES OF STUDY.

## TIME TABLE.

In Minutes, per Week for the

### PRIMARY AND GRAMMAR SCHOOLS.

	1st Year.	2d Year.	3d Year.	4th Year.	5th Year.	6th Year.	7th Year.	8th Year.	9th Year.
Reading . . . . .	755	590	520	300	220	200	160	150	150
Arithmetic.....	150	210	240	250	280	280	280	280	180
Algebra.....	...	...	...	...	...	...	...	...	120
Grammar.....	...	...	...	...	...	...	130	150	170
Comp. and Lang.....	...	75	75	150	150	200	100	100	100
Geography . . . . .	...	...	30	180	180	180	170	150	150
History . . . . .	20	20	30	40	60	60	140	150	150
Spelling . . . . .	60	90	90	100	100	100	100	100	90
Writing . . . . .	60	60	60	60	60	60	60	60	60
Drawing . . . . .	60	60	60	60	60	60	60	60	60
Music . . . . .	60	60	60	60	60	60	60	60	60
Nature Study.....	30	30	30	60	60	30	30	30	30
Physiology . . . . .	25	25	25	...	30	30	30	30	...
Sewing.....	...	...	...	60	60	60	...	...	...
*Manners, Morals.....	25	25	25	25	25	25	25	25	25
Physical Culture.....	30	30	30	30	30	30	30	30	30
† Recesses . . . . .	200	200	200	100	100	100	100	100	100
† Opening Exercises.....	25	25	25	25	25	25	25	25	25
Totals.....	1500	1500	1500	1500	1500	1500	1500	1500	1500

\* Required by State Law; time fixed at five minutes each day by vote of the School Committee.

† See Sec. 21, Chap. III, of the Rules of the School Committee.

‡ See Sec. 22, Chap. III, of the Rules. If for any reason a recess is shortened or omitted the time for the same should be given to physical exercises, and the Rules forbid that the hours for closing school which have been prescribed by the School Committee should be changed.

Book-keeping may receive one half the time assigned to penmanship in the ninth year.

The above table is intended as an approximate estimate of the relative importance of the different studies, and teachers are at liberty to vary the time for each study within such reasonable limits as circumstances may require.



## FIRST YEAR.

## FIRST HALF.

READING.—Teach at first by the sentence or word method or by a combination of the two, beginning with script letters on the blackboard. As soon as a few words are learned use phonic analysis to secure distinct articulation and assist in the recognition of new words. Consult on the subject of phonetics Ward's "Manual of Instruction," and the Connecticut School document entitled "Phonetics in Teaching Reading."

WRITING.—Short sentences from blackboard copy.

LANGUAGE.—Children should be led to talk freely about things with which they are familiar and to reproduce short stories told them by the teacher. Memory gems, brief maxims, and short selections of poetry should be learned and recited in this and all succeeding grades. History and literature in the form of short stories should have some place from the first, care being taken to have such stories very simple as well as short.

ARITHMETIC.—Numbers from one to five inclusive. Add, multiply, subtract and divide, developing all processes by the aid of objects.

NATURE STUDY.—Lessons to recognize and name a few common plants, animals and minerals, and to note single qualities of each. Teach only from observation and experiment. The "Outline Course," prepared by the N. E. Conference of Educational Workers, may be used as a manual. Copies can be had at the office of the Superintendent of Schools.



PHYSIOLOGY.—Oral lessons, teaching the names and uses of the external parts of the body, and the simplest rules of health. Teach the effect of the use of alcoholic stimulants and narcotics, as required by the laws of the State.

MANNERS AND MORALS.—As required by the Public Statutes of the Commonwealth and printed on page 26 of the Rules of the School Committee in this and all succeeding grades. Mrs. Dewey's "How to Teach Manners," or Miss Wiggin's "Lessons on Manners," may serve as a manual.

MUSIC AND DRAWING.—Throughout the course as directed by the special teacher of each of these branches.

#### SECOND HALF.

READING.—Primers or First Readers of any of the dozen or more authorized series. Continue phonics with much drill on phonograms and their blending into words. See that every sentence is spoken as a whole. In this, as in all grades, the aim is to secure a full comprehension of the thought, natural expression, distinct articulation, correct pronunciation and ready utterance.

WRITING.—Sentences from the blackboard, chart, and teacher's copy. The teaching of spelling should be included in the same exercise. See Ward's Manual, page 29. If all the letters of the alphabet have not been learned by the pupil by the end of the year, unconsciously, give a little special instruction to accomplish this object.

LANGUAGE.—Conversational lessons and story telling as in the first half. History and literature continued. Whenever possible make stories more interesting by show-

ing pictures. Begin writing short sentences and teach the capital at the beginning of the sentence, the capital I and the period and interrogation mark.

ARITHMETIC.—Numbers, oral and written, to ten inclusive. Use objects at first, but discard them as soon as pupils can do without them. Arabic and Roman notation to ten (and further, so as to enable pupil to tell page, lesson and paragraph in the reading book, at the option of the teacher.) Teach and use the signs  $+$ ,  $-$ ,  $\times$ ,  $\div$ ,  $=$ , and have their use begun by pupils. Teach objectively the fractions  $\frac{1}{2}$ ,  $\frac{1}{4}$ ; coins from one cent to ten cents, pint, quart, inch.

NATURE STUDY.—Lessons as in first half. Teach only the most general and obvious features, and assist pupils to find out all facts for themselves as far as possible.

PHYSIOLOGY.—As in the first half. In connection with names and uses teach the proper care of the hair, teeth, nails, etc. Do not try to teach too much; only general facts which are within the range of the pupils' observations are wanted. Show importance of cleanliness, exercise, proper clothing, good food, pure air, etc., in this and succeeding grades.

## SECOND YEAR.

### FIRST HALF.

READING.—The first half of authorized second readers with phonetic drill as before. The ideal in this and all succeeding grades of the primary course is to have thoughts given as wholes with no hesitating over or at the separate words. To enable pupils to do this all new and difficult words should be pronounced and their meaning explained

before oral reading is begun. Then, by questioning, make sure that the pupil fully understands what he has seen in print, and allow him to read, orally, only when he is ready to do so without halt or break.

WRITING.—Sentences and words as in the first year, and from dictation. Use capitals, the period and the question mark. As before the same exercise should teach spelling. Oral spelling may also be begun at the option of the teacher. Teach children to spell their own names and the names of places or objects in which they are interested.

LANGUAGE.—Teach the use of good English by illustration in readings and story telling, using for this purpose selections simple enough to be suited to the children and yet such as are in good literary form, and give practice in very simple reproductions, both oral and written. The literature best adapted to this grade is that of fairy tales and folk lore stories, and the history is that of mythology and legend. Local history should receive a prominent place, and such stories as those of Columbus, the Pilgrims, Washington, etc., would be appropriate. Suit history to holidays, as “The First Thanksgiving” to November, etc.

ARITHMETIC.—Numbers, oral and written, in separations and combinations, to twenty. Objects may be used if necessary, but ought not to be greatly needed. Simple operations in small fractions and in denominate numbers also continued. Teach pupils to read and use the signs +, —, etc.

NATURE<sup>7</sup> STUDY.—Work of the first year continued and extended. Of plants name parts, as stem, leaf, bud, etc. Name parts and note habits of animals, birds,

insects etc. Remember that no lesson is worth giving which does not thoroughly interest the pupil at the time, and tend to increase his regard for the natural objects which are about him.

PHYSIOLOGY.—The senses; the eye and sight; the ear and hearing. Teach only the most general features, any thorough study of the anatomy of the eye or ear being wholly out of place. Temperance teaching as before.

#### SECOND HALF.

READING.—Second Readers completed. Phonic drill continued and emphasized.

WRITING.—On paper, from blackboard copy, from dictation, and from print as found in the reading book.

SPELLING.—Words of the reading lesson copied by pupils, either from the book or from dictation, or spelled orally, or both. Teach the spelling also of objects like articles of food or clothing with which children are familiar and in which they are interested.

LANGUAGE.—As in the first half. Oral and written exercises. Continue to give attention to capitals and the most common marks of punctuation. History and literature as in the first half.

ARITHMETIC.—Numbers, oral and written, to fifty, with drill as in the first half. Roman notation to fifty. Coins and dollar sign; pint, quart, gallon; pint, quart, peck, bushel; inch, foot, yard; hour, day, week, month, year; dozen. Fractions,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{3}$ ,  $\frac{1}{6}$ .

NATURE STUDY.—As in the first half. Experiment with seeds planted in pots in the school room. Have children gather cocoons and watch for the change into moths and butterflies. Make regard for animal life an integral part of all lessons on animals. Observe, draw, describe.

PHYSIOLOGY.—The senses continued; the nose and smell; the tongue and taste; touch. Show the use and value of all the senses, and the ill effects of abuse, including under the latter topic the effects of alcohol and tobacco. Be careful not to lessen influence by overstatements.

### THIRD YEAR.

#### FIRST HALF.

READING.—The first half of advanced second readers, and of easy third readers. The habit of reproducing that which has been read, usually orally, but sometimes in writing, which should have already been begun, becomes in this and succeeding grades a matter of the greatest importance, and every reading lesson should have in connection with it some work of this kind.

WRITING.—On paper with pen or pencil, and in the writing book with pen. In all written work in language, nature study, etc., insist on order, neatness, and the very best penmanship of which the pupil is capable.

SPELLING.—Words and sentences copied from books or from the blackboard, and afterward written from dictation. New words in the reading lesson spelled orally, and afterward written in sentences. Give much drill on familiar words which are often misspelled.

LANGUAGE.—Oral and written exercises. Review, continue and extend all work of previous grades. Teach different forms of sentences; the use of *is, are; was, were; did, done; saw, seen, etc.*; the correct use in sentences of some synonyms as *big, large; like, love, etc.*; and a few homonyms, as *fore, four; write, right; no, know, etc.*; the use of capitals with proper names, some abbreviations, and such punctuation as is needed in the written work done by the pupils.

The work in history and literature may be extended somewhat, both in use and in subjects. A little written reproduction may be added to the oral, and stories for literary culture may include myths, fables and folk lore, such as are given by Hawthorne in his "Wonder Book," or Scudder in his collection of folk lore tales. In myths, choose those of natural objects, as "Ulysses and the Bag of Winds," etc. History may include more stories of noted men and events. The history of Lowell is worthy of much attention, especially the story of its founding. Note use of Indian names, as Wamesit, Merrimack, Pawtucket, etc. Use pictures when possible.

ARITHMETIC.—Numbers, oral and written, Arabic and Roman notation to one hundred. Give much attention to adding numbers in columns, and to the multiplication table.

GEOGRAPHY.—Teach points of compass with application to many objects in and about the school house. At appropriate times give easy oral and observation lessons on natural phenomena, as clouds, frost, snow, etc. Note temperature as warm, hot, or cold, and the weather as sunny, cloudy or rainy. Keep weather records. For further suggestions consult Frye's Primary Geography.

NATURE STUDY.—Observation lessons on familiar plants, animals, and minerals continued, to include some knowledge of parts, habits, uses, qualities, etc., with comparisons noting resemblances and differences.

PHYSIOLOGY.—The bones, teeth, skin and muscles. Teach few names, and only the most general features, giving special attention to the laws of health. Temperance teaching continued.

#### SECOND HALF.

READING.—Advanced Second Reader completed, and supplementary readers. Continue phonics and enunciation exercises.

WRITING.—Copy book No. 2 with pen, and paper with pen or pencil, as before.

SPELLING.—As in first half.

LANGUAGE.—At the end of this year pupils should be able to write simple statements legibly and in correct form, and should have such knowledge of punctuation marks, capital letters and common abbreviations as is needed in such writing. They should have had some practice in the simplest form of letter writing. The work to be done is indicated in the foregoing statement.

ARITHMETIC.—Numbers to one hundred. Arabic and Roman notation to one thousand. Review and extend the work of all previous grades. To be ready for promotion to a grammar school, children should be able to add columns of figures to a total of 100 rapidly and accurately; to know the multiplication table to ten times ten so as to be



able to give products instantly ; to use all the common tables of denominate numbers in simple reductions ; and to add, multiply, subtract and divide small fractions like  $\frac{1}{2}$ ,  $\frac{1}{4}$  and  $\frac{1}{8}$ .

GEOGRAPHY. Have children read Carroll's *Around the World, First Book*, and add such comment and instruction as shall give to the subject the highest attainable degree of interest and value.

NATURE STUDY.—Lessons as in the first half.

PHYSIOLOGY.—Circulation, respiration and digestion. As before avoid teaching too much, and make the instruction as practical as possible by relating each fact learned to some simple and easily followed law of health.

## GRAMMAR SCHOOLS.

### FOURTH YEAR.

READING.—Authorized Third Readers and supplementary reading of the same grade. Correlate history and geography with reading by the use of stories of heroes either real or mythological and by accounts of strange countries and unique productions.

SPELLING.—Words in common use, orally and in writing. By definition, or use in sentences, make sure that pupils understand the meaning of all words given for a lesson. Make every written exercise a lesson in spelling. Select words for practice from all text books used, and for supplementary drill use authorized text books as follows : Worcester, first half to page 29 ; second half to

page 47; Reed, first half to page 24; second half to page 38; Morse, first half to page 10; second half to page 30.

ARITHMETIC.—Numbers to 1000. Daily oral drill in numbers to 100, as in the primary schools. Written work, with numbers usually small enough to be expressed by three figures, in addition, subtraction, multiplication and division, no multiplier or divisor to be larger than 9. Use terms, sum, product, multiplier, etc., but do not require definitions. Give problems in dollars and cents, using the dollar sign and decimal point. Continue the drill of the primary school in easy reductions of denominate numbers. Teach thoroughly the reduction, addition, subtraction, multiplication, and division of the fractions,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{3}$ ,  $\frac{1}{6}$ , illustrating all processes by objects, but using the written expression from the first. Second half, continue and extend all work of the first half. Notation and numeration to 1,000,000. Multiplication with multipliers large enough to be expressed by two or three figures, and long division, no divisor larger than 25. Decimals to thousandths in addition and subtraction, and in multiplicands and dividends in multiplication and division.

LANGUAGE.—The expression of thought, orally and in writing, in simple sentences, with practice in the use of such capital letters, punctuation marks and abbreviations as are necessary to correct writing. Oral language should include whole paragraphs and the reproduction of entire stories or incidents as well as single sentences. Second half, continue work of first half and add the simplest forms of letter writing as outlined in the authorized text book to page 104. Blackboard work strongly recommended.

GEOGRAPHY.—The earth as a whole, with land and water forms; the air, winds, dew, rain, snow, etc. Teach by observation as far as possible, relating that which is beyond vision to that which has been observed as far as can be done, and using pictures to still further assist the imagination. Second half, the use of globes and maps and a brief general study of the hemispheres and their grand divisions, North America, the United States as a whole, and the New England and Middle States more in detail.

HISTORY.—As many stories should be read by the pupils, or told or read to them by the teacher, as time will permit, but the number of facts to be required for reproduction should be very few, probably not more than could be written on a page of foolscap, or told by a class in the time of a single recitation. These few, however, should be learned with the utmost exactness and thoroughness; they should be planned to form the basis of all future study of the history of the United States from Columbus to the end of the nineteenth century; should include a few dates like 1492, 1776, etc.,—a half-dozen will do very well, but these few should be so learned as to be recalled as automatically as the child would recall his own name. In the recitation of facts intended to be mastered no mistakes should be tolerated; nine-tenths of the teaching, however, should not have the memorizing of facts, names and dates as any part of its object, but should aim to quicken interest, broaden vision, stimulate patriotism and develop character through appreciation of courage, loyalty and virtue as exemplified in the heroes of history. Use pictures, relics, etc., to increase interest as far as possible, and remember that whatever else is accomplished the lesson is a failure which does not leave the class with a desire for further study.

NATURE STUDY.--Continued study of plant life, emphasizing the changes from flower to fruit and seed; continued study of animals for recognition, habits, and adaptation of parts; second half, more detailed study of the plant and its parts, with conditions of germination and growth, such as need of air, light, warmth, moisture and proper soil; pebbles, sand and clay with reference to life history of rocks.

Writing, Drawing, and Music as directed by the supervisors of these branches in this and succeeding grades. Sewing under the direction of the special teacher in this and the next two grades.

#### FIFTH YEAR.

READING.—Fourth readers and supplementary books. For suggestions see Miss Edmund's course for this year.

SPELLING.—As in the fourth year, with words for supplementary drill, first half to page 69 in Worcester; second half to page 93; in Morse, first half to page 44; second half to page 64; Reed, first half to page 56; second half to page 78.

ARITHMETIC.—Continue all the work of the previous year. Whatever else is omitted see that oral drill and rapid written work with small numbers are given prominent places on the programme. In written work give many examples and problems with small numbers, rather than a few with large numbers. Long division with divisors of not more than three figures. In addition to constant practice with fractions already learned, teach  $\frac{1}{6}$ ,  $\frac{1}{12}$ ,  $\frac{1}{5}$ ,  $\frac{1}{10}$ , and continue practice in the use of decimals and denominate numbers. In the use of the authorized text book

omit all the examples involving long and tedious operations with large numbers. Second half, continue work of the first half. Teach fractions to and including twenty-fourths. Teach least common multiple when needed as a means of finding the least common denominator of fractions, and factoring and cancellation when needed for practical use. Extend work of previous years in denominate numbers to include all simple reductions.

LANGUAGE.—As in the fourth grade the work is still to get from the pupil the expression of thought in correct language, both oral and written. In this work clearness of thought is of primary importance. The pupil must first have something to say, and then be taught to say it in terse and correct English. Dictation, reproduction, narration work and letter writing are approved methods of securing the result desired. Second half, to work previously done add the study of sentences by name, as declarative, interrogative, etc., with their division into subject and predicate, and begin the study of words and their uses in the sentence to include nouns, verbs, and pronouns to page 210 in the authorized text book. Continue to have pupils do much writing on the black-board.

GEOGRAPHY.—Complete the study of the groups of states which compose the United States, and of South America. Second half, teach of Europe, Asia, Africa, and Oceanica, making the work simple, general and elementary, as would be suggested by the authorized text books.

HISTORY.—First, review the facts which were taught in the fourth year so thoroughly and constantly that no one of them shall escape. Second, add about as many new facts, dates, etc., as were mastered in the last year,

and teach them with the same thoroughness and intensity as was then demanded. Cover the whole period of the history of civilized man in America, selecting the new matter of this year so as to fill out and supplement the brief outline of the previous year, and relate our history to that of the world's whole past as far as such relation is natural and helpful. In teaching a few indispensable things be satisfied with nothing less than perfection, and for the rest and by far the most of the time have pupils read and enjoy the stories which are the life of history, without attempting to burden them with the recollection of all they read. Correlate with geography, make and use maps, draw, use pictures, make collections, etc.

NATURE STUDY.—Study of trees, for recognition by differences in size, form, leaves, bark, etc., study of one insect, as grasshopper, butterfly, or moth, as type; gather cocoons, and note metamorphoses. Second half study of plants and their growth continued, emphasizing roots and stems; of rock-forming minerals as quartz, mica, feldspar, hornblende, etc. Note use as building stones.

PHYSIOLOGY.—Book No. 1 of the Union series, as a reader, with such comment and instruction in this and succeeding grades as shall comply with the following law of this State: "Physiology and hygiene, which shall include special instruction as to the effects of alcoholic drinks, stimulants and narcotics on the human system, shall be taught as a regular branch of study to all pupils in schools supported by public money."

#### SIXTH YEAR.

READING. — Fourth Intermediate and supplementary books.



SPELLING. — As before correlate spelling with every subject taught. Make every written exercise a lesson in spelling, and for supplementary drill use Worcester first half, to page 111; second half to page 125; Morse, part III to page 73; second half to page 82; Reed, first, to page 92; second, to page 106.

ARITHMETIC. — Continue oral drill and rapid written work with small numbers. Review and extend work in fractions, but do not attempt to master the too difficult problems of the text books. Teach decimals more fully than before, and give many problems involving the use of United States money and the reduction of denominate numbers. Second half, continue all work of first half. Practice in compound numbers should include all common reductions, but should omit the addition, subtraction (with the exception of the subtraction of dates), multiplication and division of compound numbers as such, longitude and time, metric equivalents, etc.

LANGUAGE. — Study of words and their uses continued to include all the Parts of Speech. Second half, classes of nouns as common and proper, singular and plural, the changes of form which are necessary to indicate possession, and their uses as subjects or objects of the verb, the distinction of person in pronouns, and the use of predicate adjectives. Teach clauses, and the distinction between simple and complex sentences.

The foregoing is the new work of the year, but it should not be allowed to prevent the giving of the larger part of the pupil's time to a continuation of the more important work of the fourth and fifth years in the correct expression of thought in language both oral and



written, with careful attention to paragraphing, spelling, punctuation, capital letters, abbreviations, etc., in the written work. Continue blackboard practice.

GEOGRAPHY.—Mathematical, physical. and political. Geography of the earth as a whole, with a general study of the hemispheres, as outlined in the first 26 pages of Butler's Complete Geography. Second half, North America, the United States as a whole, and the New England and Middle States in detail.

HISTORY.—Treat the work of the fourth and fifth years in history exactly as the teacher of the fifth year was instructed to treat that of the year preceding her own, and make a few additions in accordance with the plan and in the spirit heretofore suggested.

NATURE STUDY.—Study of trees continued. In spring emphasize clusters of flowers, maple, elm, horse chestnut, etc., and in fall tree fruits, and the dispersion of seeds. Study of birds, grouping according to habits; e. g., aerial, perchers; terrestrial, scratchers; aquatic, swimmers; and the adaptation of parts to these habits.

PHYSIOLOGY.—Book No. 2 of the Union series, as a reading book, with comment and instruction as before.

#### SEVENTH YEAR.

READING.—Franklin Intermediate and supplementary readers.

SPELLING.—Work of the sixth year continued. For supplementary drill use Worcester, first half to page 135; second half to page 145; Morse, first half to page 91; second to page 112; Reed, first to page 118; second to page 128.

ARITHMETIC.—Review constantly the work of all preceding years, but especially the work in fractions and denominate numbers. For advance work take up percentage, with applications to profit and loss, insurance, brokerage, taxes, etc. Second half, to work of first half add interest, simple and compound, with applications to promissory notes and discounts at banks.

GRAMMAR.—“Study of the sentence as a means of expressing thought, with such attention to the parts of speech and their classification and inflection as may be necessary to a clear understanding of the construction of the sentence.” To page 135 in the Mother Tongue, Book II. Three lessons each week.

LANGUAGE.—Letter writing, business forms, social notes, paragraph and sentence study, descriptions, study of selections, etc., as planned in Miss Arnold’s “Outline of a Course of Study in Language,” seventh and eighth grades, pages 18, 19 and 20. Two connected periods each week. Some writing on blackboard each day is recommended.

GEOGRAPHY.—Atlantic, Gulf, and Central States; second half, Rocky Mountain and Pacific States and Territories, British America, Mexico, the Central American Republic and West Indies.

HISTORY.—Discovery, exploration, and conquest of America to date of first permanent English settlement in greater detail than before, but with constant use of the outline already learned, using the order of the authorized text books. Relate the history of this country as far as possible to the European, and especially to the English history which preceded it. Second half, the settlement of

North America to the beginning of the French and Indian War.

NATURE STUDY.—Grains and grasses in the fall; rose family in spring. For animal study, specialize on some typical family as e. g., for marine animals, the oyster or clam, the lobster or crab. Compare with vertebrates (fish). For work in minerals, the study of some common metals and their ores, as iron, copper, etc.

PHYSIOLOGY.—First half, food and digestion; second half, the blood, blood vessels and circulation. General facts relating to laws of health are to be emphasized rather than minor details of structure. Teach effects of the use of alcohol as required by law.

#### EIGHTH YEAR.

READING.—Fifth Readers and supplementary books.

SPELLING.—Relate spelling to all other subjects taught as in previous years, and use the authorized text books for additional drill. Worcester, first half to page 155; second half to page 163; Morse, first half to page 120; second half to page 128. Reed, first half to Page 140; second half to page 153.

ARITHMETIC.—Review the work of all previous years, with further applications of the principles of percentage and interest, to stocks and bonds, exchange, etc., and add partnership, ratio and proportion. Of subjects treated in the authorized text book omit equation of payments, problems in exchange involving interest-bearing drafts, and the more complicated problems in partnership. Second half,

involution, evolution, to include second and third roots, and mensuration of plane surfaces to and including circles.

GRAMMAR.—Sentence study continued, with “a detailed study of the parts of speech, their classification and inflection, and the details of analysis and construction which are necessarily associated with such study.” Three periods weekly. Text book to page 267.

LANGUAGE.—Continuation and extension of the work of Grade VII. For details consult Miss Arnold’s outline as before.

GEOGRAPHY.—South America and Europe. Second half, Asia, Africa, Oceanica, with a general study of the principal commercial routes of the world, and of the chief exports of leading commercial ports.

HISTORY.—The conquest of Canada and the development of the English colonies in America into the United States to the time of the Treaty of Paris in 1783. Second half, the establishment, growth and history of the Union under the Constitution to the administration of Andrew Jackson, 1829.

PHYSIOLOGY.—The study of the human body as outlined in the authorized text book, Union series, Book 3, to include the respiratory system, the bones, joints and muscles. Second half, study of the subject as outlined in the text book completed.

NATURE STUDY.—Birds, from observation, for recognition, knowledge of the time of arrival and departure of those which are migratory, habits, food, nesting, etc.

All pupils ought at the end of the year to know from personal observation a dozen kinds, and some, with proper encouragement and assistance, will know from seventy to eighty.

## NINTH YEAR.

READING.—Fifth Readers, Masterpieces of American Literature and other supplementary books. Read and study as literature Irving's *Rip Van Winkle* and Longfellow's *Evangeline* in the first half, and Whittier's *Snow Bound*, Hawthorne's *Great Stone Face*, and Lowell's *Vision of Sir Launfal* in the second.

SPELLING.—As in previous years, with supplementary drill on words found in the last part of Worcester's Speller in the first half, and in the whole book in the last half. Morse, first half to page 128; second, complete and review; Reed, finish and review.

ARITHMETIC.—First half a review of fundamental processes with numbers both integral and fractional, factoring, the finding of divisors and multiples, percentage, and so much of geometry as is found in the Werner Arithmetic, Book III, to page 150; second half, percentage continued with applications to discounts, interest, stocks, etc., ratio and proportion, powers and roots, denominate numbers, etc., with general review of the whole subject of arithmetic and so much of geometry as is given in the authorized text book to page 256. Metrics at the option of the teacher.

ALGEBRA.—Work in Algebra may follow the order of the authorized text book on algebra, or of the arithmetic.

In the latter case algebraic fractions may be omitted in the first half of the year, at the option of the teacher, and only so much work is required in the whole year as will be equivalent to the completion of the subject to page 71 in Wentworth's "First Steps in Algebra." The algebra may be taken with the arithmetic or alternated with it, but should not receive more than two-fifths of the time allotted to mathematics in the ninth year.

GRAMMAR.—Sentence analysis with more difficult constructions, and such study of the more difficult constructions of words in sentences and of phrases and clauses as shall be necessary to the comprehension and use of the English language.

LANGUAGE.—As planned in Miss Arnold's outline, pages 20, 21 and 22.

GEOGRAPHY.—Give special attention to local geography and that of the State, and review briefly the mathematical, physical and political geography of the earth as a whole, and of the United States and other political divisions of North America. Omit geographical study in the last half of the year.

HISTORY.—First half, complete the history of the United States to date. Second half, review the whole subject.

BOOK-KEEPING.—One-half the time allotted to penmanship may be devoted to book-keeping.

NATURE STUDY.—Trees from observation. Pupils ought to be able at the end of the year to locate and describe forty varieties which they have seen in or near the city. Collections of woods are recommended.

PHYSICS (optional).—As outlined in the authorized text book.

## HIGH SCHOOL.

CLASSICAL.	COLLEGE.	TECHNOLOGY.	MODERN LANGUAGE.
*Latin. *Algebra. *English I. *Phys. Geog. <i>hf.</i>	*Latin. *Algebra. *English I *Physics <i>hf.</i>	*Latin or Man. Train. *Algebra. *English I. *Phys. Geog. <i>hf.</i>	*French I. *Algebra *English I. *Phys. Geog. <i>hf.</i>
Cæsar or French I. Geometry. Physics. *Hist and Eng. II.	*Cæsar. *Geometry. Greek I French I, *History and Eng. II. (Select 4.)	Cæsar or Man. Train. *Geometry. *French I. *Hist. and Eng. II (Select 4.)	French II. Geometry. Physics. *Hist. and Eng. II.
Cicero or Fr. II or I. *Hist. and Eng. III. Arith. <i>hf.</i> Physiology <i>hf.</i> †Astron. and Geol. Chem. <i>hf.</i> or Chem. I. German I.	*Cicero. *English III <i>hf.</i> *Coll. French <i>hf.</i> *Coll. Math. Gr. II. or Fr. II. Coll. Physics. German I. (Select 5)	*Coll. French II. *English III <i>hf.</i> *Coll. Math. German I. *History IV. (Select 3½)	French III. *Hist. and Eng. III. Physiology <i>hf.</i> †Astron. and Geol. German I. Chem. I or Chem. <i>hf.</i> Arithmetic <i>hf.</i>
Virgil or French II or French III. *English IV. *Hist. IV. Botany <i>hf.</i> German I or II. Chemistry II.	*Virgil *English IV. *Gr. and R. Hist. *Coll. French II. Gr. III or Fr. III. German I or II. Geom. and Trig. (Select 4 or 5.)	German I or II. *English IV. Geom. and Trig. Physics I or Coll. Physics. Chemistry I (Select 4)	German I or II. *English IV. History IV. Chemistry I or II. Botany <i>hf.</i>

\* Prescribed.

† Astronomy and Geology may be taken the fourth year instead of the third year.



MANUAL TRAINING.	COMMERCIAL.	TEXTILE SCHOOL.	FIVE YEARS COLLEGE.
*Man. Train. I. *Algebra. *English I. *Phys. Geog. <i>hf.</i>	*Book-keeping and Correspondence I. *Alg. and Mental Arith. *English I. *Com. Geog. <i>hf.</i>	Latin or French or Man. Train. *Algebra. *English I. *Phys. Geog. <i>hf.</i>	FIRST YEAR.  Latin. Algebra. English. Physics <i>hf.</i>
*Man. Train. II. Geometry. Physics. French I. *Hist. and Eng. II.	*Book-keeping II. *Com. Law and Arith. French I. Geometry. Physics. *History and Eng. II. (Select 4.)	Cæsar or French II or Man. Train. *Geometry. *Physics. *Hist. and Eng. II. (Select 4)	SECOND YEAR.  Cæsar. Greek. Hist. and Eng. II. Geometry.
*Man. Training III *Hist. and Eng. III. Physiology <i>hf.</i> French I or II. †Astron. and Geol. German I. Chemistry I. Arith. <i>hf.</i>	*Book-keeping III. *Stenog. and Type-writing I. *Hist. and Eng. III. Physiology <i>hf.</i> †Astron. and Geol. French II or I or German I. Chemistry I.	*Chemistry I. *Coll. Math. French III or I or German I. *English III <i>hf.</i> (Select 3½.)	THIRD YEAR.  Cicero. Greek II. English III <i>hf.</i> Coll. Fr. I <i>hf.</i>
*Man Train. IV. French II or III. German I or II. *English IV Geom. and Trig. Botany <i>hf.</i> Chemistry II. History IV.	*Stenog. and Type-writing II. French II, III. *English IV. Hist. IV. German I or II. *Economics. Chemistry II (Select 4) (Given Sept., 1903.)	*English IV. *Coll. Physics. Fr. II or German I, II or I. Chemistry II. History IV. Geom. and Trig. (Select 4)	FOURTH YEAR.  Review Cicero. Review Greek II. English IV. Gr. and R. Hist. Coll. Math.
			FIFTH YEAR.  Virgil. Greek III. Coll. Physics. Coll. French II. (All prescribed.)

\*Prescribed.

†Astronomy and Geology may be taken the fourth year instead of the third.

#### Minimum number of subjects required for a diploma.

FIRST YEAR — Three and one-half subjects in all courses.

SECOND YEAR — Three subjects in all courses except the Commercial Course, in which four must be taken.

THIRD YEAR — Three and one-half subjects in all courses.

FOURTH YEAR — Three and one-half subjects in all courses except in the commercial Course, in which four must be taken.

## NOTES ON HIGH SCHOOL COURSES OF STUDY.

Parents of pupils who intend to enter the High School are requested to consider the foregoing courses of study with great care, as changes from one course to another during the year are impracticable, and a change after the first year may cause the pupil to lose time. The Masters and Teachers of the school will gladly give parents and pupils any assistance and advice possible in the selection of studies.

It is essential that a blank for pupils who expect to enter the school be filled in, signed, and sent to the Master as early as June 30. Those who come from other High Schools and expect to enter with advanced standing should select their courses for the first half year and send the list to the Master not later than the same date. Blanks may be obtained of the Master.

In each course certain studies are prescribed, but pupils may make up the remainder of the required studies from a wide range of elective subjects. The prescribed studies in each course are starred. Satisfactory completion of three years' work in any course will entitle the pupil to a three years' diploma. Satisfactory completion of four years' work in any course will entitle the pupil to a four years' diploma. Those who satisfactorily complete the five years' College Course will be entitled to a five years' diploma.

The **Classical Course** is intended for students who do not intend to enter College, but who desire the best general education that the High School furnishes.

The **College Preparatory Course** will fit students for any American College and may be completed in four or five years. It is necessarily difficult. The student is advised to take five years for preparation for Radcliffe or Harvard College.

The **Modern Language Course** is similar to the Classical Course, except that a modern foreign language will be taken instead of Latin. In educational value it is practically equivalent to the Classical Course.

The **Manual Training Course** offers a combination of the ordinary High School studies with practical work in the use of tools and machines, together with a complete course in mechanical drawing, technical drafting, and free-hand drawing, and allows the student to specialize somewhat in mechanical work. It also furnishes

an excellent general training. Candidates for the Massachusetts Institute of Technology and Worcester Polytechnic School should not take this course for more than two years as manual training counts only as an elective in admission requirements.

The **Commercial Course** is designed for those who expect to engage in business, and has been arranged so that the pupil will receive the same amount of mental training and acquire as much mental power as in any other course. It is not less educational than other courses and must not be selected with the conviction that it is "easy."

In preparation for the Normal School, select either the classical Course or the Modern Language Course, preferably the former. For Medical Schools and some of the smaller colleges, select the Classical Course. For other Colleges select the College Course. In this course French and German may be substituted for Greek in preparation for some colleges.

For the Lawrence Scientific School, select the College Course or the Classical Course with Manual Training in place of Physical Geography.

By an examination of the courses of study, it will be seen that a minimum number of subjects is required in each year of each course for a diploma. But in preparing for higher institutions more than the minimum number of subjects, depending on the requirements of the college, will need to be taken. At the beginning of his second year, the pupil, therefore, should decide upon the college or school for which he wishes to prepare and should select his subjects to fit the requirements. He should make himself familiar with the requirements and also obtain the advice of the Teachers and Master of the school in selecting his subjects. Candidates for Smith, Wellesley and Mt. Holyoke should send applications for admission as early as their third year.

Unprepared work in Music, Calisthenics, Elocution, Ethics and Military Drill is required.

Classes will not be formed in Electives for less than twenty pupils in the first or second year, fifteen in the third year, and twelve in the fourth year.

# ROLL OF TEACHERS.

GIVING NAME, GRADE, RESIDENCE, DATE OF ELECTION, AND SALARY.

## HIGH SCHOOL.

Kirk and Anne Streets.

CYRUS W. IRISH, Headmaster, 93 Fort Hill Avenue.....	1885	\$3000
FRANK B. SHERBURNE, Sub Master, 58 Dover Street, <i>Greek and Latin</i> .....	1883	2200
MARY A. WEBSTER, 45 Varney Street, <i>English and Math-</i> <i>ematics</i> .....	1859	1000
CHARLOTTE E. DRAPER, 47 Belmont Avenue, <i>Cæsar, As-</i> <i>tronomy, Geology and Geometry</i> .....	1870	900
ALICE J. CHASE, 263 Fairmount Street, <i>History and</i> <i>English</i> .....	1877	800
SUSIE L. D. WATSON, 390 East Merrimack Street, <i>United</i> <i>States History and Arithmetic</i> .....	1885	800
ADELAIDE BAKER, 136 Myrtle Street, <i>French</i> .....	1885	900
JENNIE L. ALLEN, 947 Middlesex Street, <i>Physics and</i> <i>Physiology</i> .....	1885	800
EMMA L. BRADLEY, 485 Westford Street, <i>French</i> .....	1890	800
GERTRUDE A. RODLIFF, Chelmsford Centre, Mass., <i>English</i> .....	1890	800
MARIETTA CASSIDY, 4 Fifth Avenue, <i>Latin and Algebra</i>	1890	800
GEORGIANA F. VINTON, 52 Fourth Street, <i>History, Eng-</i> <i>lish and Algebra</i> .....	1872	800

GRACE M. GOODHUE, 120 School Street, <i>Ancient History and Latin</i> .....	1893	\$ 800
BESSIE E. HUNTOON, 64 Warwick Street, <i>French and Physiology</i> .....	1894	800
GRACE WARD, 279 Chelmsford Street, <i>Physics and Physical Geography</i> .....	1895	800
MARY E. O'CONNOR, 60 Varnum Street, <i>History and English</i> .....	1896	800
CARL D. BURTT, 91 Fort Hill Avenue, <i>Greek and German</i> .....	1895	1500
FREDERICK R. WOODWARD, 168 Sixth Street, <i>Mathematics and Physics</i> .....	1895	1500
HELEN M. LAMBERT, 283 Pawtucket Street, <i>Chemistry</i> .....	1897	800
THOS. F. FISHER, 305 East Merrimack Street, <i>Manual Training</i> .....	1898	1200
ANNE M. DAY, 278 East Merrimack Street, <i>English</i> .....	1899	800
HELEN BUTTRICK, 307 Wilder Street, <i>English</i> .....	1899	800
FRED W. PUTNAM, 69 Third Street, <i>Manual Training</i> .....	1899	1000
EDWARD S. COLTON, JR., 33 Harrison Street, <i>Book-keeping</i> .....	1900	1500
MARY G. STEVENS, East Merrimack Street, <i>Tewksbury, English</i> .....	1900	800
MARY H. KILLPATRICK, 609 Stevens Street, <i>Commercial Law and Geography</i> .....	1901	650
NATHANIEL H. ATKINS, 88 Warwick Street, <i>Bookkeeping</i> .....	1901	800
ADELAIDE E. SWEETSIR, 276 Westford Street, <i>English and Algebra</i> .....	1902	650
MARGARET V. SPEAR, 576 Westford Street, <i>French and English</i> .....	1902	650
ELSIE RYDER, 90 Chestnut Street, <i>Bookkeeping</i> .....	1902	650
ERNEST M. HUNT, 90 Chestnut Street, <i>Stenography</i> ..	1902	800
MIRION H. MILNER, 280 East Merrimack Street, <i>Physical Culture and Elocution</i> .....	1902	800
EDMUND KETCHUM, 159 Merrimack Street, <i>Drawing, (one day per week)</i> .....	1902	250
KATHARINE H. COGGESHALL, 108 Appleton Street, <i>Secretary</i> .....	1899	400

## BARTLETT GRAMMAR SCHOOL.

Wannalancit Street.

CYRUS A. DURGIN, Master, 117 Bowers Street .....	1891	\$2000
BELLE A. PRESCOTT, 9th year, 68 Mt. Washington Street	1878	600
CHARLOTTE M. MURKLAND, 8th year, 117 Bowers Street	1898	600
BLANCHE A. CHENEY, 8th year, 34 Arlington Street .....	1896	600
AMY L. TUCKE, 7th year, 111 Butterfield Street.....	1880	600
MARIA W. ROBERTS, 7th year, 414 Andover Street.....	1875	600
BELLE F. BACHELDER, 6th year, 66 Arlington Street.....	1883	600
CARRIE E. ERSKINE, 6th year, 138 Mt. Vernon Street....	1893	600
MARY I. HOWE, 5th year, 84 Methuen Street.....	1873	600
BERTHA J. CURTIS, 5th year, 81 Mt. Vernon Street .....	1899	600
ALICE D. SUNBURY, 4th year, 142 Wilder Street .....	1899	600
MARY E. WALSH, 4th year, 9 Corner Street.....	1897	600

## BARTLETT PRIMARY SCHOOL.

FRANCES CLARK, 3rd year, Chelmsford.....	1899	\$ 600
SARAH E. AMES, 2d year, 119 Hall Street.....	1902	600
ALICE G. BARRETT, 1st year, 93 Mt. Vernon Street .....	1901	600
ESSIE E. ROCHE, temporary, 1835 Middlesex Street .....		

## MORRILL SCHOOL.

Common and Adams Streets.

NELLIE M. BROWN, Principal, 3rd year, 426 Fletcher Street .....	1865	\$ 650
ANNIE M. COURTNEY, 2nd year, 196 Pawtucket Street ....	1887	600
AGNES T. COURTNEY, 1st year, 11 Marsh Street.....	1891	600
CORINNA G. COVER, 1st year, 16 Lombard Street.....	1901	450

## CROSS STREET SCHOOL.

Cross Street, between Fletcher and Mt. Vernon Streets.

SARAH E. SCALES, Principal, 3rd year, 28 Ralph Street...	1866	\$ 650
ELLEN M. WHITE, 2nd year, 418 Walker Street.....	1863	600
A. GERTRUDE STILES, 1st and 2nd years, 72 Varney Street	1895	600
KATHERINE KELLY, 1st year, 98 School Street .....	1893	600



## BUTLER GRAMMAR SCHOOL.

Gorham Street.

CORNELIUS F. CALLAHAN, Master, 410 Walker Street.....	1884	\$2000
NELLIE F. MURPHY, 9th year, 85 Sherman Street.....	1878	600
HELEN E. GOOKIN, 9th year, Wamesit.. .. .	1897	600
MARY I. DONLAN, 8th year, 455 High Street.....	1890	600
MARY E. LANE, 8th year, Billerica.....	1894	600
DELIA T. BRADY, 7th year, 183 Chapel Street.....	1883	600
KATE E. KELLEY, 7th year, 129 Moore Street.....	1883	600
AGNES M. FOLEY, 6th year, 37 Newhall Street.....	1887	600
SADIE E. TULLY, 6th year, 105 Westford Street.....	1897	600
ALICE C. O'BRIEN, 6th and 7th years, 22 William Street..	1897	600
MARY L. MCSORLEY, 5th year, 30 Ash Street.....	1879	600
ETTA G. BURNS, 5th year, 154 Perry Street .....	1901	500
KATHERINE M. USHER, 4th year, 465 Parker Street.....	1895	600
MARGUERITE J. CRONIN, 4th year, 228 Plain Street .....	1900	600
JOSIE V. HOAR, 4th year, 87 Mt. Washington Street.....	1901	500
ANNIE J. DEVINE, 4th year, 110 Carlisle Street.....	1901	500
MARGUERITE G. HYDE, 5th year, 5 Floyd Street.....	1902	450
KATHERINE M. JANTZEN, 4th year, 3 Olive Street....	1902	450

## LYON STREET SCHOOL.

Corner Lyon and Central Streets.

ALICE T. LEE, Principal, 3rd year, 12 South Walker Street	1878	\$ 650
ANNABEL COSTELLO, 2nd year, 293 Nesmith Street.....	1888	600
MARY J. MCCARRY, 1st year, 58 Elm Street.....	1881	600
NELLIE A. HUNT, 1st year, 68 Elm Street.....	1884	600
GERTRUDE E. DANE, temporary, 2 Wellington Square....		

## CARTER STREET SCHOOL.

Carter Street.

ISABELLA T. VINALL, Principal, 3rd year, 1 Glidden Avenue.....	1873	\$ 650
MARGARET J. CONNORS, 2nd year, 48 Walnut Street .....	1894	600
KATHERINE F. BRADY, 2nd year, 173 Chapel Street.....	1897	600
MARY V. JOHNSON, 1st year, 23 Lombard Street.....	1897	600
DELIA C. MALONEY, 1st year, 70 Elm Street.. .. .	1901	500



AGAWAM STREET SCHOOL.

Agawam and Barrington Streets.

MARY A. FAY, Principal, 3rd year, 115 Stackpole Street..	1889	\$ 650
SUSAN G. NEILON, 2nd year, 135 Andrews Street.....	1895	600
EVA MAGOON, temporary, 7 James Court.....		

LONDON STREET SCHOOL.

Corner of London and West Streets.

LIZZIE R. MAGUIRE, Principal, 3rd year, 112 Pleasant Street .....	1884	\$ 650
ALICE A. MASTERSON, 1st and 2nd years, 57 Christian Street .....	1892	600
MINNIE F. HILL, 1st and 2nd years, Midland Street .....	1887	600

WEED STREET SCHOOL.

Corner of Weed and Gorham Streets.

MARY B. MCGOVERN, Principal, 3rd year, 31 Pearl Street	1886	\$ 650
LILLA M. MCEVOY, 2nd year, 181 Moore Street.....	1893	600
MARY F. DEVINE, 1st year, East Chelmsford.....	1902	450

EDSON GRAMMAR SCHOOL.

Highland Street.

CALVIN W. BURBANK, Master, 130 Bowers Street.....	1872	\$2000
FRANCES M. WEBSTER, 9th year, 45 Varney Street.....	1873	600
ROSALIE T. BURNS, 8th year, Rogers Street, Corner But- man Road .....	1878	600
ANNIE E. DONOVAN, 8th year, 26 Madison Street.....	1895	600
BERTHA M. ROWLANDSON, 7th year, 11 Holyrood Avenue	1891	600
KATE J. HAYES, 6th and 7th years, 15 Floyd Street.....	1879	600
MARGIE F. MARREN, 6th year, 420 Fletcher Street.....	1886	600
SARAH J. CROSBY, 5th and 6th years, 12 Simpson Place...	1868	600
BERTHA MCCUE, 5th year, 217 Appleton Street.....	1900	600
MARY A. BALCH, 4th and 5th years, 242 Appleton Street..	1865	600
JULIA B. RIORDAN, 4th year, 58 Second Avenue.....	1897	600
JULIA A. KENNEY, 4th year, 99 Washington Street.....	1901	500

## CHARLES STREET SCHOOL.

Charles Street, between Gorham and Chapel Streets.

ALICE T. OWENS, Principal, 3rd year, 4 Belmont Street...	1878	\$ 650
ELLA E. GARDNER, 2nd year, 109 Mansur Street.....	1871	600
ELLEN A. O'CONNELL, 2nd year, 48 Mead Street.....	1896	600
MARGARET A. HARRAHAN, 1st year, 32 Marshall Street..	1882	600

## COTTAGE STREET SCHOOL.

Corner Cottage and Chapel Streets.

ROSE E. MACVEY, Principal, 3rd year, 46 Linden Street..	1887	\$ 650
LIZZIE A. MOLLOY, 1st and 2nd years, 239 Gorham Street.	1887	600
ANNIE S. MURPHY, 1st year, 11 Carter Place.....	1901	500

## ELIOT SCHOOL.

Corner Favor and Summer Streets.

ELLEN A. STILLINGS, Principal 1st year, 24 Bellevue Street .....	1875	\$ 650
ELLEN A. CORBETT, 3rd year, 32 Highland Street.....	1878	600
NELLIE T. O'GRADY, 2nd year, 73 Newhall Street.....	1881	600
LOYOLA McCANN, 1st year, 17 Wentworth Avenue.....	1893	600

## GREEN GRAMMAR SCHOOL.

Merrimack Street.

ALBERT L. BACHELLER, Master, 25 Nesmith Street. ....	1874	\$2000
RUTH B. BAILEY, 9th year, 514 Moody Street.....	1871	600
CLARA A. HANAFORD, 8th year, 142 Wilder Street.....	1869	600
SADIE F. McCORT, 8th year, 397 Worthen Street.....	1901	500
LIZZIE A. NOLAN, 7th year, 301 Pawtucket Street.....	1876	600
ESTHER G. DONLAN, 7th year, 455 High Street .....	1897	600
JENNIE E. FAY, 6th year, 115 Stackpole Street.....	1891	600
MARY M. KEARNEY, 6th year, 94 Andrews Street.....	1895	600
LENA A. GOOKIN, 5th year, 20 Walden Street.....	1880	600
CATHARINE F. MCCARTHY, 5th year, 647 Market Street ..	1889	600
ELLA J. CARLETON, 4th year, 1072 Bridge Street.....	1882	600
ANNIE T. DELAY, 4th year, 87 Mt. Washington Street ....	1900	600

# ROLL OF TEACHERS.

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## KIRK STREET SCHOOL.

Corner Kirk and Lee Streets.

ELIZA A. DAVIS, Principal, 2nd and 3rd years, 100 Canton Street . . . . .	1881	\$ 625
LAURA H. PALMER, 1st and 2nd years, 35 Thirteenth Street . . . . .	1882	600

## CABOT STREET SCHOOL.

Corner Cabot and Ford Streets.

KATHERINE T. LENNON, Principal, 3rd year, 144 School Street . . . . .	1885	\$ 650
MARY T. WHELLEY, 2nd year, 1 Fenwick Street. . . . .	1887	600
MARY J. MURPHY, 1st year, 112 Jefferson Street. . . . .	1887	600

## CHEEVER STREET SCHOOL.

Cheever Street.

IDA J. CLARKE, Principal, 1st year, 26 Ash Street. . . . .	1887	\$ 650
MARY E. MEEHAN, 2nd and 3rd years, 215 Worthen Street . . . . .	1891	600
ANNA A. SARGENT, 1st year, 223 Liberty Street. . . . .	1864	600

## WORTHEN STREET SCHOOL.

Worthen Street, between Market Street and Broadway.

MARY J. ALGER, Principal, 1st year, 43 Royal Street. . . . .	1868	\$ 650
ESTHER V. GREEN 2nd year, 674 Broadway. . . . .	1889	600
MARY R. MARREN, 3rd year, 420 Fletcher Street. . . . .	1890	600
ELIZABETH A. PAGE, 1st year, 647 Market Street. . . . .	1901	500

## HIGHLAND GRAMMAR SCHOOL.

(Telephone 638-2.)

Pine Street.

CHARLES W. MOREY, Master, 14 Belmont Street. . . . .	1880	\$2000
FLORA I. MOFFITT, 9th year, 76 Canton Street. . . . .	1887	600
MARY F. FOSS, 9th year, 284 Gibson Street . . . . .	1891	600
ABBIE F. WOODWARD, 8th year, 157 Dartmouth Street..	1869	600
ESTELLE L. WHITNEY, 8th year, 13 Oakland Street. . . . .	1885	600
LEONORA K. BATTLES, 7th year, 11 Edson Street. . . . .	1895	600

## ROLL OF TEACHERS.

ANNA A. BURNHAM, 7th year, 247 Liberty Street.....	1984	600
LUELLA A. WARDWELL, 6th year, 13 Oakland Street.....	1870	600
MINNIE C. GRAY, 6th year, 106 Liberty Street.....	1890	600
FANNIE M. CLARK, 5th year, 13 Oakland Street.....	1874	600
LULU TURNER, 5th year, 24 Bellevue Street.....	1900	600
GRACE R. SANDERS, 4th year, 67 South Loring Street....	1899	600
MABEL E. BROWN, 4th year, 172 Branch Street .....	1901	500
ALICE RICHARDSON, 5th year, temp., 213 Branch Street...		
ALICE F. DUCKWORTH, 4th year, temporary, 308 Nesmith Street .....		

## HIGHLAND ANNEX.

At Franklin School.

ARVILLA L. READER, 4th year, 216 Appleton Street. ....	1871	\$ 600
GRACE F. WARD, 5th year, 6 Appleton Place .....	1893	600
MARY L. CROWLEY, 6th and 7th years, 52 Mt. Washington Street .....	1902	450

## FRANKLIN SCHOOL.

Corner Branch and Middlesex Streets.

SARAH C. FISKE, Principal, 3rd year, 246 Appleton Street	1866	\$ 650
LIZZIE S. LOWE, 2nd year, 13 Nichols Street.....	1857	600
MARION J. STEVENSON, 1st and 2nd years, 63 Princeton Street .....	1878	600
KATE G. JONES, 1st year, 119 Andover Street .....	1880	600

## PINE STREET SCHOOL.

Corner Pine and Gibson Streets.

CARRIE J. BAILEY, Principal, 3rd year, 16 Loring Street..	1884	\$ 625
GRACE I. WASHBURN, 1st and 2nd years, 15 Loring Street	1897	600
LOUIE M. BLAISDELL, 1st year, temporary, Wamesit.....		

## DOVER STREET SCHOOL.

Dover Street, between Middlesex and Grove Streets.

CLARA B. HORNE, Principal, 3rd year, 87 South Highland Street .....	1877	\$ 650
CLEMENTINE H. BOWERS, 2nd year, 18 Loring Street.....	1876	600
BERTHA GARDNER, 1st year, 32 Robbins Street.....	1887	600

MIDDLESEX VILLAGE SCHOOL.

HARRIET F. WAKEFIELD, Principal, 5th and 6th years, 2 Loring Street.....	1889	\$ 650
GERTRUDE C. RING, 3rd and 4th years, 167 Sixth Street...	1898	600
MAUD E. GREEN, 1st and 2nd years, 238 East Merrimack Street .....	1900	600

POWELL STREET SCHOOL.

Powell Street, near Liberty Street.

VIOLA A. HAMBLETT, Principal, 1st and 2nd years, 463 School Street .....	1876	\$ 625
ELLEN J. PIPER, 2nd and 3rd years, 55 Coburn Avenue ...	1894	600

ABRAHAM LINCOLN SCHOOL.

Chelmsford Street.

JAMES L. MELLEN, Master, 74 Pentucket Avenue.....	1893	\$2000
MARGARET M. SPARKS, 9th year, 11 Fort Hill Avenue...	1894	600
GRACE SCRIBNER, 8th year, 190 Liberty Street .....	1893	600
IRMA V. HODGMAN, 7th year, 23 Whitney Avenue.....	1897	600
BRIDE T. SWEENEY, 6th year, 102 Pleasant Street.....	1900	600
HELEN J. O'HEARN, 6th year, 649 Westford Street. ....	1900	600
ALICE I. GOOKIN, 5th year, Wamesit.....	1902	450
ELLEN L. FLOYD, 4th year, 124 Stevens Street.....	1887	600
ELLA E. PRESCOTT, 4th year, 71 Bellevue Street.....	1894	600
ESTHER M. DOWNING, 5th year, temporary, 674 Broadway		
JENNIE E. ROGERS, 4th year, temporary, 181 Pleasant Street .....		

Primaries in Lincoln School Building.

ELSIE M. PUFFER, 1st year, 942 Middlesex Street.....	1901	500
SADIE M. DEANE, 1st year, 82 B Street.....	1902	450

HOWARD STREET SCHOOL.

Howard Street, between Chelmsford and Hale Streets.

MARION E. GREENE, Principal, 3rd year, 96 Pine Street..	1884	\$ 650
ALICE C. GREENE, 2nd year, 96 Pine Street.....	1894	600

## GRAND STREET SCHOOL.

(Howard Street Annex.)

Grand Street, between Westford and Middlesex Streets.

JENNIE M. BENNETT, 1st year, 24 Bellevue Street.....	1885	\$ 600
MINNIE A. WILSON, 1st year, 28 Cambridge Street.....	1887	600

## PLAIN STREET SCHOOL.

Corner Plain and Powell Streets.

FLORA H. SPRAGUE, Principal, 3rd year, 589 School Street	1882	\$ 650
MARY A. FARNHAM, 2nd and 3rd years, 90 Gates Street..	1887	600
LILLA M. STANLEY, 2nd year, 2 Horn Street.....	1897	600
LENA M. ROBINSON, 1st year, 118 D Street.....	1898	600
CARRIE B. PRICE, 1st year, 18 Hadley Street.....	1900	600

## MOODY GRAMMAR SCHOOL.

Corner High and Rogers Streets.

WILLIAM S. GREENE, Master, 454 Andover Street.....	1883	\$2000
MERCENA F. WHITEHORN, 9th year, 268 E. Merrimack Street.....	1877	600
CARRIE A. PAUL, 8th year, 11 Porter Street.....	1891	600
FRANCES E. HARDMAN, 5th year, 263 Fairmount Street..	1873	600
IDA L. SAMUELS, 7th year, 56 Fifth Avenue.....	1898	600
ELLA M. BREEN, 6th year, 23 Marsh Street.....	1893	600
FRANCES E. GARRITY, 5th year, 34 Read Street.....	1874	600
NELLIE C. MAHONEY, 4th year, 17 North Street.....	1898	600
FLORA A. OWEN, 4th year, 11 Porter Street.....	1900	600

## POND STREET SCHOOL.

Corner High and Pond Streets.

MARIETTA HILL, Principal, 3rd year, 278 East Merrimack Street .....	1870	\$ 650
WINIFRED HAGGERTY, 2nd year, 52 Huntington Street ..	1884	600
ADELAIDE CROWLEY, 1st year, 115 Fort Hill Avenue.....	1894	600

## HIGH STREET SCHOOL.

High Street between Chestnut and Everett Streets.

CLARA A. EMERSON, Principal, 2d and 3d years, 216		
Appleton Street .....	1869	\$ 625
ELIZABETH WORTHLEY, 1st year, 27 Canada Street.....	1891	600

## FAYETTE STREET SCHOOL.

Fayette Street, between Chestnut and Everett Streets.

GEORGIA A. HARNDEN, Principal, 2nd and 3d years, 149		
Pleasant Street.....	1885	\$ 625
MARY A. MEEHAN, 1st and 2d years, 38 Laurel Street	1895	600

## SYCAMORE STREET SCHOOL.

Sycamore Street.

FLORENCE E. ROWELL, Principal, 142 Wilder Street...	1900	\$ 625
ELIZABETH B. DAME, 1st year, 178 First Street.....		450

## PAWTUCKET GRAMMAR SCHOOL.

Mammoth Road, Pawtucketville.

WILLIAM P. BARRY, Master, 1280 Middlesex Street....	1887	\$2000
ELLEN M. MacDONALD, 9th year, 290 East Merrimack St	1878	600
CARRIE M. HART, 8th year, 16 Varney Street.....	1887	600
ELIZABETH A. HART, 7th year, 16 Varney Street.....	1886	600
CHARLOTTE C. WALSH, 6th year, 431 Adams Street....	1902	450
JULIA M. HEALEY, 5th year, 108 Bowers Street.....	1870	600
GOLDIE M. GARDNER, 4th year, 15 Columbus Avenue..	1898	600
MARGARET G. McDONALD, tenip., 397 Broadway.....		

## NEW MOODY STREET SCHOOL.

ELLEN M. HOLDEN, Principal, 3d year, 21 Eighth Avenue	1876	\$ 650
EUGENIA L. HOGAN, 2d year, 81 Fourth Avenue... ..	1889	600
NELLIE F. DAVIDSON, 2nd year, 20 Lombard Street.....	1891	600
ALICE B. BESSE, 1st year, 581 Rogers Street.....	1891	600
MAUDE M. HARDY, 1st year, 110 Branch Street ... ..	1901	500
ANNA I. CASSIDY, 1st year, 4 Fifth Avenue.....	1902	450



## LEXINGTON AVENUE.

Lexington Avenue near Varnum Avenue.

HELEN KOHAWN, Ungraded, 63 Thirteenth Street.....	1877	\$ 625
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## LOWELL, TRAINING SCHOOL.

Charles and Lawrence Streets.

(Telephone 531-3.)

GERTRUDE EDMUND, Principal, 74 Huntington Street....	1895	\$2000
MABEL W. EWINGS, 3 Astor Street.....	1891	900
ADDIE B. MERRILL, 981 Bridge Street .....	1892	900
HELEN M. SHEAN, 11 Fort Hill Avenue.....	1891	900
MARGARET C. FOX, 9th year, 8 Eddy Street.....	1900	600
GRACE C. DELANEY, 2nd year, 791 Broadway Street.....	1900	600
MABEL H. ELA, 407 Walker Street.....	1900	600
MARY E. SNOW, 89 School Street.....	1901	500
HARRIET L. WHEELER, 65 Harvard Street .....	1900	600
ADDIE E. EDWARDS, 550 Westford Street.....	1900	600
ALICE H. BACHELLER, 25 Nesmith Street .....		
AVIS J. COBURN, 56 Sixth Street.....		
MARY H. COBURN, 56 Sixth Street .....		
EDITH V. COCKERILLE, 210 School Street .....		
BESSIE L. DAVIDSON, 64 Warwick Street.....		
REBECCA A. GARDNER, 75 Pine Street.....		
ANNA F. JOYCE, 22 Twelfth Street.....		
ANNIE L. MAHONEY, 41 Butterfield Street.....		
MAUDE E. MOODY, 8 Ralph Street .....		
EDYTH E. PHILBRICK, 198 Methuen Street.....		
MARY G. QUINN, 28 Chapel Street .....		
MARY G. SEEDE, 777 Central Street.....		
BERTHA M. STEVENS, 4 Fifth Street.....		
LILLIAN A. STROUT, 111 South Loring Street .....		
MARY E. TOBIN, 40 Linden Street.....		

## CENTRAL STREET SCHOOL.

Central Street, Opposite Hudson Street.

ELIZA COWLEY, Principal, 3rd year, 484 Rogers Street..	1857	\$ 650
ELIZABETH G. LAWLER, 2nd year, 260 High Street.....	1897	600
HELEN A. DRURY, 1st year, 44 Walnut Street.....	1897	600
NNA T. COBURN, Temp., 74 Boylston Street.....		

# ROLL OF TEACHERS.

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## AMES STREET SCHOOL.

Corner Lawrence and Ames Street.

AMANDA M. HADLEY, Principal, 3rd year, 89 Washington Street.....	1870	\$ 650
KATE F. MURPHY, 2nd year, 11 Carter Place .....	1885	600
MARY E. DREW, 1st and 2nd years, 36 Wamesit Street...	1868	600
LIZZIE M. HADLEY, 1st year, 31 Royal Street.....	1869	600

## VARNUM GRAMMAR SCHOOL.

Myrtle Street, Centralville.

Tel.-932-12.

HENRY H. HARRIS, Master, 151 Eleventh Street.....	1893	\$2000
ELIZABETH C. KENNEDY, 9th year, 42 Eighteenth Street	1884	600
MARY F. WING, 9th year, 95 Myrtle Street.....	1879	600
AGNES BAILEY, 8th year, 55 Third Street.....	1900	600
DAISY B. MACBRAYNE, 8th year, 24 Beech Street .....	1900	600
ELIZABETH T. MOORE, 7th year, 21 Burlington Avenue ..	1901	500
GRACE W. BALCH, 7th year, 434 Westford Street.....	1894	600
ELIZABETH M. BUTLER, 6th year, 142 Third Street.....	1901	500
MARY A. FAY, 6th year, 303 Tenth Street.....	1898	600
AGNES T. FAY, 6th year, 303 Tenth Street.....	1891	600
ELIZABETH F. GARRA, 5th year, 109 Bartlett Street.....	1893	600
ALICE R. KEESE, 5th year, 145 Beacon Street.....	1881	600
ADA E. HOOLE, 5th year, 173 Warren Street.....	1894	600
ROSA A. DOWD, 5th year, 237 Tenth Street.....	1884	600
JULIA WILLIAMS, 4th year, 156 Sixth Street.....	1886	600
MARGARET F. HOWE, 4th year, 208 South Street.....	1900	600
MARY E. THOMAS, 4th year, 40 West Sixth Street.....	1902	450
ANNA V. DONOGHUE, 4th year, Temp., 104 Lawrence Street		

## WEST SIXTH STREET.

West Sixth Street, between Coburn and Jewett Streets, Centralville.

STELLA J. ALLEN, Principal, 3rd year, 115 Third Street..	1879	\$ 650
LIZZIE F. LAMERE, 2nd year, 63 Canton Street.....	1885	600
MARION S. KEYES, 1st and 2nd years, 102 Third Street..	1888	600
MARY J. CALLAHAN, 1st year, 117 Durant Street.....	1895	600

## TENTH STREET SCHOOL.

Corner Tenth and Varnum Streets, Centralville.

MARY F. BEANE, Principal, 3rd year, 212 Tenth Street ...	1879	\$ 650
FANNIE H. MURPHY, 2nd year, 42 Twelfth Street.....	1889	600
ALICE A. HOLTHAM, 1st and 2nd years, 1107 Bridge Street	1887	600
ELLA A. BAILEY, 1st year, 118 Sixth Street.....	1869	600

## LAKEVIEW AVENUE SCHOOL.

Lakeview Avenue, Centralville.

MARGARET J. MCCLUSKEY, Principal, 3rd year, 246 Methuen Street.....	1890	\$ 650
MARTHA ROGERS, 2nd year, 131 Cumberland Road.....	1895	600
M. JOSEPHINE DONEHUE, 1st year, 891 Bridge Street ....	1900	600
MARGARET JAMIESON, temporary, 112 Shaw Street.....		
MARY COURTNEY, temporary, 75 Chestnut Street.....		
HELEN D. SWAIN, temporary, 81 Mt. Vernon Street.....		

## BILLINGS STREET SCHOOL.

MALVINA LAMERE, Principal, 1st year, 6 West Eleventh Street .....	1894	\$ 650
ANNIE M. ROBBINS, 3rd year, 62 Twelfth Street.....	1895	600
ETTA FOYE, 2nd year, 201 Market Street .....	1901	500

## KINDERGARTENS.

## AGAWAM STREET.

SARAH G. SPARKS, Principal, 59 Elm Street .....	1894	\$ 500
ROSEMARY LENNON, 39 Carter Street.....	1895	450

## BARTLETT SCHOOL.

E. BELLE PERHAM, Principal, 100 Riverside Street. ....	1893	\$ 500
EDITH A. ANDREWS, 77 Fort Hill Avenue.....	1897	450

## CHARLES STREET.

MABEL D. NICKERSON, Principal, 136 Chestnut Street....	1893	\$ 500
M. ETHEL BAKER, 100 Westford Street .....	1899	450

## CHAPEL STREET.

MARIETTA G. GORMLEY, Principal, 22 Lyon Street.....	1895	\$ 500
KATHERINE C. EARLEY, 172 Concord Street.....	1896	450

## DOVER STREET.

ELIZABETH A. WILSON, Principal, 15 South Canton Street	1893	\$ 500
ELLA M. PENN, 262 London Street.....	1901	450

## FRANKLIN SCHOOL.

N. GRACE TAYLOR, Principal, 118 Bartlett Street.....	1895	\$ 500
HORTENSE LAMERE, 6 West Eleventh Street .....	1899	450

## LINCOLN SCHOOL.

ELSIE M. CRAGIN, Principal, 114 South Walker Street ...	1895	\$ 500
GERTRUDE A. ROBERTS, 182 Stevens Street.....	1897	450

## MOODY SCHOOL.

MARY C. WALKER, Principal, 100 Appleton Street.....	1893	\$ 500
ALICE F. SEETON, 159 Mammoth Road.....	1901	450

## PAWTUCKET.

M. MARIETTA KING, Principal, 205 Stackpole Street....	1895	\$ 500
S. HORTENSE TABOR, 82 Riverside Street.....	1896	450

## ROLL OF TEACHERS.

## PLAIN STREET.

EDITH A. HOWITT, Principal, 52 Myrtle Street.....	1897	\$ 500
AGNES E. COBURN, 47 Methuen Street.....	1901	450

## PINE STREET.

LOUIE I. SMITH, Principal, 69 Nichols Street.....	1895	\$ 500
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## VARNUM SCHOOL.

NETTIE M. CONANT, Principal, 27 Central Street.....	1892	\$ 500
CLARA M. EVERETT, 945 Middlesex Street.....	1896	450

## WORTHEN STREET

HELEN W. NOYES, Principal, 49 Nesmith Street.....	1896	\$ 500
S. ALICE KNAPP, 407 Moody Street.....	1899	450

## SUPERVISOR OF KINDERGARTENS.

ANNA W. DEVEREAUX, 7 Nesmith Street .....	1893	\$ 500
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## MUSICAL DIRECTOR.

FREDERICK O. BLUNT, 50 Chelmsford Street.....	1898	\$1250
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## TEACHER OF DRAWING.

OLIVE E. UNDERHILL, 117 Branch Street.....	1887	\$1250
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## TEACHER OF SEWING.

IDA J. FLINT, 200 Liberty Street.....	1880	\$ 800
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## MILITARY INSTRUCTOR.

COLBY T. KITTREDGE, 14 Ralph Street .....	1901	\$ 250
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## ABSENT ON LEAVE.

ELIZABETH F. BLANDIN.....	Varnum
ALICE M. MAGOON.....	Varnum

# TRAINING SCHOOL GRADUATES.

## CLASS OF JUNE, 1901.

Anna T. Coburn, 74 Boylston Street.  
 Mary G. Courtney, 75 Chestnut Street.  
 Annie V. Donoghue, 104 Lawrence Street.  
 Esther M. Downing, 674 Broadway.  
 Katherine G. Egan, North Andover, Mass.  
 Margaret S. Jamieson, 112 Shaw Street.  
 Eva G. Magoon, 7 James Court.  
 Margaret G. McDonald, 397 Broadway.  
 Essie E. Roche, 1835 Middlesex Street.  
 Jennie E. Rogers, 181 Pleasant Street.  
 Helen D. Swain, 81 Mt. Vernon Street.  
 Ethel W. Whitcomb, 2 Belmont Street.

## CLASS OF JUNE, 1902.

Louie M. Blaisdell, Wamesit, Mass.  
 Mary E. Crowley, 436 Lincoln Street.  
 Gertrude E. Dane, 2 Wellington Square.  
 Helen A. Dow, 149 B Street.  
 Alice F. Duckworth, 308 Nesmith Street.  
 Ethel M. Everett, 12 Belmont Street.  
 Edith Farrington, 182 Perry Street.  
 Eva M. Goss, 203 Stedman Street.  
 Martina F. McMahon, 33 Mead Street.  
 E. Laura Moore, 122 Branch Street.  
 Elizabeth Murphy, Third Avenue.  
 Catherine G. O'Sullivan, 105 Mt. Washington Street.  
 Elizabeth P. Porter, Danvers, Mass.  
 Alice Richardson, 213 Branch Street.  
 Mabel C. Walsh, 53 Third Avenue.  
 Loretta L. Ward, 220 Fletcher Street.

## TEACHERS' CERTIFICATES.

Granted Since January 1, 1900.

## FIRST GRADE.

Geo. A. Willey, Dartmouth, '74, 124 Appleton Street.  
John F. Meehan, St. Bonaventure College, '00, 215 Worthen Street.  
Edmund L. Smiley, Boston University, '00, 89 Grove Street.  
Christopher J. Hagan, Georgetown College, '00, 217 Warren Street.  
F. Joseph Dowd, Harvard, '00, 212 Crosby Street.  
William Hanson Howard, Dartmouth, '02, 40 Arlington Street.

## SECOND GRADE

Ethel W. Whitcomb, Smith, '00, 2 Belmont Street.  
Edith Everett, Boston University, '00, 3 Aspen Street, Roxbury, Mass.  
Mary H. Wait, Radcliffe, '00, 6 Adams Street, Wakefield, Mass.  
Alice Prentice Barrows, Vassar, '00, Vassar College, N. Y.  
Elizabeth M. McNally, Acadia University, N. S., '00, 28 Warwick Street.  
Belle F. Batchelder, 66 Arlington Street.  
Grace Webster Hartz, Boston University, '00, 27 Central Street.  
Louise Stevenson, Vassar, '01, Princeton Street.  
Elizabeth Murphy, Boston University, '01, cor. Crawford and Third Ave.  
Alice Duckworth, Smith, '01, 308 Nesmith Street.  
Alice Richardson, Smith, '01, 213 Branch Street.  
Gertrude P. Cole, Wellesley, '01, Peabody, Mass.  
Ethel M. Everett, Wellesley, '01, 12 Belmont Street.  
Mabel T. Everett, Wellesley, '01, 12 Belmont Street.  
Alice M. Greathead, Wellesley, '01, 519 Broadway.  
Elizabeth P. Porter, Wellesley, '01, 19 Cherry Street, Danvers.  
Alice H. Bacheller, Vassar, '02, 25 Nesmith Street.  
Susan G. Burbank, Boston University, '02, 130 Bowers Street.  
Mary H. Coburn, Smith, '02, 56 Sixth Street.  
Avis J. Coburn, Smith, '02, 56 Sixth Street.  
L. Ruth Clarke, Boston University, '02, Northfield, Mass.  
Bessie F. Davidson, Boston University, '02, 64 Warwick Street.

## FOURTH GRADE.

Mary I. Halloran, Normal School, '01, 546 East Merrimack Street.  
Gertrude B. Crowley, Normal School, '01, 115 Fort Hill Avenue.  
Nina B. Wood, Normal School, '01, 112 B Street  
J. Marguerite Adams, Normal School, '02, Haverhill, Mass,  
Alda L. Armstrong, Normal School, '02, Littleton, N. H.  
Mina Guyton, Normal School, '02, 45 Fourth Avenue.



## SALARIES OF TEACHERS.

## HIGH SCHOOL.

Head Master.....	\$3000
First Sub-Master.....	2200
Men Teachers.....	800 to 1500
Women Teachers, first year ..	650
Women Teachers, second year.....	700
Women Teachers, third year and thereafter.....	800 to 1000

## GRAMMAR SCHOOLS.

Masters.....	\$1300 to 2000
Assistants, first year ..	450
Assistants, second year.....	500
Assistants, third year and after.....	600
Teacher of Drawing .....	1250
Teacher of Music .....	1250

## PRIMARY SCHOOLS.

Teachers, first year.....	\$450
Teachers, second year.....	500
Teachers third year and after.....	600
Principals of two rooms.....	625
Principals of three rooms or more.....	650

## TRAINING SCHOOL.

Principal.....	\$2000
Three Assistants.....	900

## KINDERGARTENS.

Principals .....	\$500
Assistants, first year .....	350
Assistants after first year .....	450

## TEMPORARY TEACHERS.

Men Teachers per day.....	\$3 00
Women Teachers in High School per day.....	2 50
Women Teachers in Primary and Grammar Schools per day..	2 25

## TEXT BOOKS USED IN THE PUBLIC SCHOOLS.

## PRIMARY SCHOOLS.

First Readers, Fifteen Series.	Davis's Stories of American History.
Second Readers, Fifteen Series.	Carroll's Around the World, Book I.
Advanced Second and Third Readers, Fifteen Series.	Monroe's Reading Chart.
Franklin Primary Arithmetic.	American Music Reader.
Prince's Arithmetic, by Grades.	American Music Chart.
Nichols's Graded Lessons in Number.	Blaisdell's Child's Book of Health.
	Heath's Vertical Writing Books.

## GRAMMAR SCHOOLS.

Third Readers, Several Series.	Butler's Grammar School Geography.
Fourth Readers, Several Series.	Frye's Primary Geography.
Fifth Readers, Several Series.	Frye's Common School Geography.
Scudder's Fables and Folk Stories.	Roddy's Elementary Geography.
De Foe's Robinson Crusoe.	Roddy's Complete Geography.
Burrough's Birds and Bees.	Tarbell's Introductory Geography.
Hawthorne's Wonder Book.	Tarbell's Complete Geography.
American Literature, Masterpieces.	Eggleston's First Book in American History.
Bradbury's Eaton's Arithmetic.	Scudder's History and Short History of the United States.
Werner's Arithmetic, Book III.	Fiske's History of the United States.
Carpenter's Geographical Readers.	Thomas's History of the United States.
Carroll's Around the World, Book II.	Montgomery's Histories of the United States.
Lewis's First Manual of Composition.	Guerber's Story of the Greeks.
Union Series of Physiologies.	Gueber's Story of the English.
Wentworth's First Steps in Algebra.	Worcester's Comprehensive Dictionary.
Worcester's New Pronouncing Speller.	Werner's Mental Arithmetic.
The Morse Speller.	Heath's Vertical Writing Books.
The Rational Spelling Book.	American Music Readers.
Reed's Word Lessons.	

## HIGH SCHOOL.

## CHEMISTRY, PHYSICS AND OTHER SCIENCES.

Elements of Chemistry, Shepard.	Herbarium, Wilson.
Experimental Chemistry, Newell.	Lessons in Astronomy, Young.
Qualitative Analysis, Irish.	Physiology, Kellogg.
A Text-book of Physics, Hall-Bergen.	Physiology, Overton.
Elements of Physics, Avery.	Physiology, Blaisdell.
Manual of Physics, Cooley.	Physiology, Foster and Shore.
Botany, Gray.	Physiology, Martin.
Geology, Le Conte.	Physiology, Walker.
Physics, Woodhull & Henderson.	Physiology, Colton.
Physics, Gilley.	Tarr's Physical Geography.
Element of Chemistry, Williams.	Geology, Brigham.

## ENGLISH.

Ancient Mariner, Coleridge.	Iliad, Pope.
Carlyle's Essay on Burns.	Iliad, Bryant.
Chaucer to Arnold, George.	Ivanhoe, Scott.
Conciliation with America, Burke.	Julius Cæsar, Shakespeare.
Composition and Rhetoric, Scott and Denney.	Lessons in English, Buehler.
Eliot's Silas Marner, Norris.	Macbeth, Shakespeare.
English Composition, Shaw.	Marmion, Scott.
Foundations of Rhetoric, Hill.	Merchant of Venice, Shakespeare.
Hill's Principles of Rhetoric.	Milton and Addison, Macaulay.
Silas Marner, Eliot.	Milton's Lyrics.
Sir Roger de Coverly Papers, Addison.	The Princess, Tennyson.
Story of the Odyssey, Church.	Vicar of Wakefield, Goldsmith.
Tales from Shakespeare, Lamb.	Introduction to English Literature, Pancoast.

## FRENCH.

Capi et sa Troupe.	French Dictionary, Heath.
College Plays, Bocher.	French Grammar, Grandgent.
Colomba Merimee,	French Grammar, Otto-Bocher.

- Complete French Course, Chardenal. French Grammar, Worman.  
 Contes et Legendes, Guerber. French Lyrics, Bowen.  
 Douze Contes Nouveaux, Fontaine. French Reader, Super.  
 French Reader for Beginners, Kuhns. Grammaire Francaise, Larive et  
 Exercises No. 1, Grandgent. Fleury, 2me An.  
 La Belle Nivernaise, Daudet. French Syntax and Composition  
 La Famille de Germandre, Sand. Bouvet.  
 La Fontaine's Fables, Mme. Beck's Le Conscriit de 1813, Erckmann  
 Edition. Chatrain.  
 La Siege de Berlin. Le Cure de Tours, Balzac.  
 La Tache du Petit Pierre. Les Precieuses' Ridicules, Moliere  
 La Voyage de Monsieur Perrichon, Methode Berlitz, Part I.  
 Labiche. Methode Berlitz, Part II.  
 French Composition, Grandgent. Pecheur d'Islande, Loti.  
 Sight Reading, Rogers. Readings from French History  
 La Grammaire, Labiche. Super.  
 Scenes de la Revolution Francaise, Selected Stories, Daudet.  
 Lamartine.

## GERMAN.

- Hocher als die Kirche, Clary. First Year German, Keller.  
 Die Schonsten Deutschen Lieder, German Dictionary, Elwell.  
 Wenckebach. German Grammar, Otto.  
 Eysenbach's German Lessons, Col- Immensee, Storm's.  
 lar. German Dictionary, Heath.  
 German Composition, Fasnacht. Der Zerbrochene King, Joyne's.  
 Traumersien, Leander. Schiller's Dreissig Jahrige.  
 Heise's L'Anabbiata Schiller's Da Neffe Als Onkel, Krieg.

## GREEK.

- Anabasis Greek Lexicon, Liddell and Scott  
 Greek Composition, Higley. Greek Lexicon, White.  
 Greek Composition, Woodruff. Greek Reader, Goodwin.  
 Greek Grammar, Goodwin. Homer's Iliad, Seymour.  
 Greek Lessons, White. Homer's Odyssey, Seymour.

## HISTORY.

Age of Pericles, Grant.	History of England, Coman and Kendall.
American History, Montgomery.	
Ancient History, Myers.	History of English People, Green.
English History, Montgomery.	History of Greece, Pennell.
English History, Higginson and Channing.	History of Rome, Allen.
European History, Adams.	Johnston's American History.
Fiske's School Histories.	Outlines of History Swinton.
General History, Myers.	Plutarch's Lives, Kaufman.
Greek History, Oman.	Source Book, Hart.
Greek History, Betsford.	Universal History, Sanderson.
Greek Tragedians, Church.	U. S. History, McMaster.
Greek Civilization, Mahaffy.	U. S. History, Channing.
	U. S. History, Scudder.

## LATIN.

Cæsar, Allen and Greenough.	Latin Lexicon, White.
Cicero, Allen and Greenough.	Nepos, Barss.
Gate to Cæsar, Collar.	New Latin Composition.
Latin Composition, Part I, Daniell.	Ovid, Allen and Greenough.
Latin Composition, Part II, Daniell.	Sallust.
Latin Composition, Collar.	Virgil, Allen and Greenough.
Latin, for Sight Reading, Tomlinson.	Virgil, Brice.
Latin Grammar, Allen and Greenough.	Viri Romæ, Rolfe.
	First Year Latin, Collar, and Daniell.

## MATHEMATICS.

Academic Algebra, Wells.	Higher Algebra, Wells.
Arithmetic, Wentworth and Hill.	Surveying, Davies.
Geometry, Plane and Solid, Wentworth.	Trigonometry, Bradbury.
Geometry, Wells.	Trigonometry, Wentworth.

## COMMERCIAL BOOKS.

Commercial Geography, Adams.	Commercial Arithmetic, Williams
Mental Arithmetic, Williams and	and Rogers.
Rogers.	Commercial Law, White.
Business Correspondence, Williams	Bookkeeping and Business Practice.
and Rogers.	Williams and Rogers.
Seventy Lessons in Spelling, Wil-	Stenography, Gregg.
liams and Rogers.	



# SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS OF THE CITY OF LOWELL FOR THE YEAR ENDING JUNE 30, 1902.

SCHOOL.	LOCATION.																													
	Whole No. Enrolled.		No. of pupils belonging Dec., 1902.		Whole No. of pupils on time books since Sept. 1, 1901.		Average No. of pupils belonging to school.		Average daily attendance.		No. en'd not rec'd. from any other pub. school.		Rec'd. from other pub. schools of lower grade.		Rec'd. from other pub. schools of same grade.		Sent to other public schools of higher grade.		Sent to other public schools of same grade.		Per cent. of attendance.		Number of class rooms in regular use.		Number of seats or sit-tings in these rooms.		Number of half-days school, counting each room as a "school."			
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
High .....	417	463	880	409	443	852	417	463	880	384	427	811	373	416	789	53	264	0	164	0	95	30	1184	10394						
Bartlett (Gram.) .....	214	232	446	184	220	404	229	240	469	193	202	395	178	184	362	55	68	23	20	17	92	11	588	3945						
PRIMARIES.																														
Cross St. near Mt. Vernon St. ....	96	67	163	69	65	134	88	99	187	71	61	132	62	55	117	62	4	20	30	17	89	4	189	1436						
Morrill .....	93	81	174	59	52	111	104	91	195	66	54	120	61	47	108	69	0	21	20	25	90	4	196	1432						
Bartlett .....	88	83	171	82	86	168	96	97	193	78	79	157	71	70	141	44	31	22	36	11	89	4	192	1434						
Totals for Primaries .....	277	231	508	210	203	413	288	287	575	215	194	409	194	172	366	175	35	63	86	53	89	12	577	4302						
Gorham Street .....	396	400	796	349	368	717	409	411	820	339	344	683	308	317	625	49	181	24	47	13	92	17	858	6087						
PRIMARIES.																														
Cor. Agawam and Barrington Sts. ....	74	71	145	55	58	113	79	74	153	63	64	127	56	60	116	41	14	13	35	7	92	3	156	1086						
Carter St. ....	132	128	260	101	101	202	141	135	276	112	103	215	99	93	192	74	0	16	53	22	90	5	280	1800						
London St. ....	83	63	146	68	48	116	77	78	155	60	53	113	53	49	102	26	0	9	27	9	89	3	163	1084						
Lyon St. ....	120	95	215	93	94	187	123	122	245	105	84	189	98	75	173	13	4	30	43	19	92	4	212	1428						
Cor. Central and Lyon Sts. ....																														
Cor. Gorham and Weed Sts. ....	78	47	125	68	37	105	78	48	126	62	37	99	58	33	91	56	0	1	26	16	90	3	168	1083						
Totals for Primaries .....	487	404	891	385	338	723	498	457	955	402	343	745	364	310	674	210	18	69	184	73	91	18	979	6481						
Lawrence St. ....	164	144	308	139	136	275	177	156	333	143	129	272	131	116	247	28	67	15	11	4	92	9	401	3231						
PRIMARIES.																														
Cor. Ames and Lawrence Sts. ....	76	78	154	69	69	138	86	97	183	66	68	134	62	62	124	48	1	30	26	20	92	4	228	1440						
Central St., opp. Hudson St. ....	84	69	153	73	62	135	97	83	180	83	64	147	75	56	131	26	4	28	34	16	90	4	212	1444						
Training .....	134	110	244	96	81	177	157	134	291	98	82	180	87	69	156	87	10	43	25	50	86	4	210	1436						
Totals for Primaries. ....	294	257	551	238	212	450	340	314	654	247	214	461	224	187	411	161	15	10	85	86	89	12	670	4320						



# SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS.—Continued.

SCHOOL.	LOCATION.	Whole No. Enrolled.		No. of pupils belonging Dec., 1902.		Whole No. of pupils on time books since Sept. 1, 1901.		Average No. of pupils attending to school.		Average daily attendance		No. ent'd not rec'd from any other pub. school.	Rec'd from other pub. schools of lower grade.	Rec'd from other pub. schools of same grade.	Sent to other public schools of higher grade.	Sent to other public schools of same grade.	Per cent. of attendance.	Number of class rooms in regular use.	Number of seats or sittings in these rooms.	Number of half days of school, counting each room as a "school."					
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.															
Edson (Gram.) PRIMARIES.	Cor. Highland and South Sts.....	207	224	431	199	190	389	218	235	453	190	195	385	175	180	355	19	81	20	19	563	4004			
	Charles St. ....	112	83	195	82	59	141	133	106	239	96	58	154	82	54	136	60	7	66	22	52	290	1440		
	Cottage St.....	80	72	152	50	54	104	113	95	208	68	54	122	62	48	110	45	9	26	18	41	163	1085		
	Eliot .....	102	90	192	91	76	167	120	107	226	83	67	150	74	60	134	87	0	51	28	26	90	240	1444	
	Totals for Primaries .....	204	245	539	232	189	421	377	296	653	247	179	426	218	162	380	190	16	143	68	119	89	583	3969	
Green (Gram.) PRIMARIES.	Merrimack St. opp. Colburn St.....	310	274	584	210	245	455	322	289	611	240	224	464	224	210	434	144	83	27	24	26	94	573	3957	
	Cor. Cabot and Ford Sts.....	77	88	165	52	54	106	81	92	173	42	50	92	37	44	81	114	0	8	29	14	87	3	168	1219
	Cor. Cheever and Tucker Sts.....	89	53	142	66	26	92	93	56	149	44	24	68	41	21	62	142	0	7	11	3	90	3	157	1079
	Kirk St. ....	63	60	123	40	38	87	83	76	159	40	36	76	37	32	69	70	0	33	25	44	90	2	116	724
	Worthen St. ....	116	115	231	82	81	163	130	124	254	81	77	158	76	72	148	79	17	21	37	18	94	4	224	1442
Total for Primaries .....		345	316	661	249	199	448	387	348	735	207	187	394	191	169	360	405	17	69	102	79	90	12	605	4464
High'd (Gram.) PRIMARIES.	Cor. Pine and Wilder Sts.....	341	399	740	330	345	675	354	409	763	306	356	662	285	326	611	54	128	19	82	30	92	16	750	5678
	Dover St. near Grove St.....	65	77	142	64	62	126	73	83	156	60	69	129	54	60	114	10	17	20	31	18	90	3	153	1080
	Cor. Pine and Gibson Sts.....	44	56	100	46	56	102	46	62	108	36	46	82	31	39	70	70	18	11	26	5	86	2	112	720
	Junc. of Branch and Middlesex Sts.....	108	89	197	78	71	149	143	106	249	94	60	154	49	40	89	70	21	52	30	53	88	4	195	1448
	Powell St. near Liberty St.....	56	37	93	43	39	82	45	42	107	43	31	80	46	28	74	75	5	27	21	26	90	2	112	722
Totals for Primaries.....		273	259	532	234	228	462	327	287	614	239	206	445	214	179	393	234	61	110	108	102	88	11	572	3970
A. Lincoln (G'r.) PRIMARIES.	Chelmsford St. near Lincoln Square..	204	210	414	199	205	404	214	219	433	177	193	370	165	177	342	21	55	19	39	13	92	9	462	3249
	Howard St. near Hale St.....	128	124	252	104	95	199	155	145	300	110	95	205	93	79	172	109	6	48	33	32	85	5	266	1807
	Cor. Chelmsford and Plain Sts.....	131	107	238	108	82	190	131	123	254	117	97	214	106	86	192	52	8	34	33	30	5	280	1801	
	In Lincoln Grammar School Building	28	30	58	23	23	46	31	32	63	23	24	47	21	21	42	42	16	5	0	9	91	1	56	361
	Totals for Primaries.....	287	261	548	235	200	435	337	300	637	250	216	466	220	186	406	203	30	87	116	74	89	11	602	3969

# SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS.—Continued.

Moody (Gram.)..	210	180	390	198	161	359	224	182	406	193	158	351	180	145	325	40	45	16	43	12	92	8	415	2890
PRIMARIES.																								
Fayette, bet. Chestnut and Everett Sts.	32	45	77	34	41	75	40	54	94	22	35	57	20	32	52	22	0	17	3	17	91	2	96	718
High, bet. Chestnut and Everett Sts.	51	29	80	35	32	67	58	35	93	36	23	59	33	22	55	27	5	12	15	14	93	2	96	720
Oaklands .....	25	21	46	28	17	45	27	22	49	24	18	42	22	17	33	10	0	3	10	1	92	1	102	718
Pond St .....	65	61	126	75	53	128	71	63	134	59	49	108	54	42	96	26	9	8	37	4	89	3	151	1084
Cor. Pond and High Sts.....																								
Totals for Primaries.....	173	156	329	172	143	315	196	174	370	141	125	266	129	113	242	85	14	40	65	36	91	9	445	3240
Pawtucket (G'r)	127	153	290	105	153	258	131	159	290	111	137	247	105	129	234	45	36	22	32	19	95	6	324	2166
PRIMARIES.																								
New Moody St..	141	133	274	117	114	231	156	153	309	118	112	230	106	101	207	89	21	31	47	21	90	6	336	1801
Varnum (Gram)	384	396	780	323	341	664	427	434	861	341	340	681	316	310	626	86	151	36	44	39	92	16	885	5756
PRIMARIES.																								
Billings St. near Hildreth Street.....	86	88	174	58	55	113	94	92	186	62	66	128	56	58	114	23	3	21	36	21	89	3	162	1082
Lakeview Ave.....	178	177	355	121	122	243	199	192	391	133	135	268	118	115	233	242	2	33	33	45	88	6	326	1757
West Sixth St....	105	98	203	83	60	143	115	109	224	89	74	163	83	67	150	56	5	30	41	39	92	4	225	1446
Tenth Street....	119	98	217	93	72	165	146	121	267	94	80	174	84	70	154	50	28	30	65	14	89	4	212	1454
Cor. Tenth and Jewett St.																								
Total for Primaries.....	438	401	949	355	309	664	554	514	1068	378	355	733	341	310	651	371	38	114	175	119	89	17	925	5739
MIXED SCHOOLS																								
Middlesex and Cornell Sts.....	62	62	124	64	40	104	67	61	128	51	45	96	46	40	86	124	0	4	8	6	90	3	152	1062
Lexington Ave. near Varnum Ave.....	25	20	45	22	16	38	25	21	46	20	11	31	18	11	29	45	0	1	7	1	92	1	56	358
Total for Mixed Schools .....	87	82	169	86	56	142	92	82	174	71	56	127	64	51	115	169	0	5	15	7	91	4	208	1420
KINDERGARTENS.																								
Agawam St.....	32	22	54	18	12	30	32	22	54	23	13	36	21	10	31	54	0	0	14	0	87	1	40	179
Varnum School, Centralville .....	41	46	87	17	16	33	42	48	90	25	30	55	26	24	50	57	0	3	26	1	99	2	75	354
Cor. Chapel and Keene Sts.....	26	24	50	18	17	35	26	24	50	18	14	32	15	12	27	53	0	0	4	1	84	1	47	177
Dover St. bet. Branch and Grove Sts.....	25	28	53	22	13	25	26	23	56	18	16	34	14	13	27	53	0	2	21	3	80	1	50	178
Bartlett School B'd'g, Wampanoac St.	25	29	54	22	21	43	26	30	56	14	20	34	11	15	26	53	0	2	31	0	76	1	46	171
Franklin School B'd'g, Branch St.	47	17	64	25	13	40	38	40	68	28	10	38	21	16	27	64	0	4	3	5	71	1	45	178
A. Lincoln	31	40	71	26	13	45	39	52	84	29	25	54	20	17	37	82	0	2	19	0	69	1	53	183
Moody School B'd'g, Chelmsford St....	44	38	82	25	27	52	45	28	52	13	16	29	11	13	24	50	0	2	17	1	83	1	55	178
Pawtucket School Building .....	24	26	50	24	20	44	24	31	55	13	12	25	10	9	19	55	0	4	0	76	1	38	175	
Charles St. cor. Chapel St.....	24	31	55	10	12	22	24	31	55	13	12	25	10	9	19	55	0	4	0	76	1	46	181	
Worthen St. School Building .....	39	40	75	22	14	36	35	40	75	16	14	30	13	13	26	74	0	1	5	1	85	1	35	176
Cor. Pine and Gibson Sts.....	14	15	29	12	16	32	10	10	20	8	7	15	29	0	3	17	2	4	7	2	75	1	25	163
Cor. Plain and Powell Sts .....	27	25	52	12	13	25	24	24	48	15	16	31	10	11	21	21	0	4	0	4	67	1	25	163
Total for Kindergartens.....	385	381	776	235	207	442	400	391	791	239	218	457	193	167	390	750	0	24	179	18	79	14	617	2470
SUMMARY.—High School.....	417	403	880	409	443	852	417	463	880	384	427	811	373	416	789	53	264	0	164	0	95	30	1184	10394
Grammar Schools.....	257	2612	5169	2236	2364	4000	2705	2734	5439	2233	2277	4510	2067	2094	4161	541	915	221	361	188	92	114	5819	49663
Primary Schools .....	3659	2723	5782	2427	2135	4562	3440	3130	6570	2444	2131	4575	2201	164	451	2123	245	87	1036	762	89	119	6333	42255
Mixed Schools.....	87	82	169	86	56	142	92	82	174	71	56	127	64	51	115	169	0	5	15	7	90	4	208	1420
Totals, not including Kindergartens.....	6120	5850	12000	5158	4998	10156	6354	6409	13063	5132	4891	10023	4705	4450	9155	2886	1444	1053	1576	957	91	267	13544	95032
Totals, including Kindergartens.....	6515	6201	12776	5593	5205	10598	7054	6800	13854	5371	5109	10480	4898	4617	9515	3636	1444	1057	1755	975	90	281	14101	97502



# AUDITOR'S

## Sixty-Seventh Annual Report

OF THE

# RECEIPTS AND EXPENDITURES

OF THE

## CITY OF LOWELL, MASS.

TOGETHER WITH THE

TREASURER'S ACCOUNT AND THE ACCOUNT OF THE COMMISSIONERS OF SINKING FUNDS, FOR THE FINANCIAL YEAR ENDING DECEMBER 31, 1902.



LOWELL, MASS.

BUCKLAND PRINTING COMPANY. 70-72-74 MIDDLE STREET,

1903.



AUDITOR'S REPORT

OF THE

RECEIPTS AND EXPENDITURES

For the Year Ending Dec. 31, 1902.





# AUDITOR'S REPORT.

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CITY OF LOWELL,

AUDITORS' OFFICE, JAN. 1, 1903.

TO THE CITY COUNCIL:

*Gentlemen:*—In conformity with the requirements of the ordinances of the City, I have the honor to present the Sixty-seventh Annual Report of the Receipts and Expenditures of the City of Lowell for the year ending Dec. 31, 1902, exhibiting the same as classified in the several department accounts, with the value of the Real and Personal Property in charge of the several departments, and a statement of the City Debt and Debts due the city.

## RECEIPTS.

The whole amount of money received into the City Treasury from all sources, from January 1 to Dec. 31, 1902, was . . . \$3,476,509 36

\$3,476,509 36

## RECEIPTS—Continued.

Of this amount there was received on account of

General Treasury Fund, Taxes...	\$1,421,941	46
General Treasury Fund, Loans....	1,322,885	00
General Treasury Fund, Revenue.	400,681	85
Assessors, Sundries.....	3	50
Auditor, Sundries .....	5	33
City Clerk, Sundries.....	9	53
City Messenger, Sundries .....	6	30
City Treasurer, Sundries.....	5	93
Inspector of Wires, Sundries.....	3	50
Mayor, Salaries and Sundries....	5	26
Registrars of Voters, Printing and Sundries.....		80
City Cemeteries .....	3	83
Commons, Sundries .....	666	13
Engineering .....	9,351	64
Health Office Sundries .....	11	46
Health, Small Pox.....	9	00
Health Yard, Sundries.....	143	00
Law, Sundries .....	4	00
Paupers, Almshouse, Grain, Gro- ceries & Provisions.....	8,164	34
Paupers, Almshouse, Sundries....	5,057	86
Paupers, Out-Door Relief Salaries	856	42
Paupers, Out-Door Relief, General Sundries.....	215	53
Police Salaries and Labor.....	2,203	75
Police, Sundries.....	12	85
Public Buildings, Labor.....	176	45
Public Buildings, Sundries.....	239	20
Schools .....	25	02
School Houses, Labor and Janitors	3,610	19
School Houses, Sundries.....	814	51
Sewer Maintenance.....	3,210	81
Sewer Construction.....	442	75
Sewer in Bowden St.....	33	44
Sewer in Western Ave., School and Rock Sts.....	2	25
Streets, Yard Labor .....	658	01
Labor on Streets and Boulevard...	707	79
Streets, Sundries.....	4,217	29
Macadamizing Canton St.....	3	50
Macadamizing Gibson St.....	4	00

## RECEIPTS—Continued.

Macadamizing Nesmith and Rogers Streets .....	\$	12 20
Smooth Paving Broadway and Suffolk Streets .....		459 90
Widening Andover St.....		2,200 00
Supply, Sundries .....		43 77
Watering Streets.....		953 35
Water works .....		197,256 58
State Aid Office Expenses.....		3 50
State Aid .....		34 50
Military Aid .....		10 00
Soldiers Relief.....		21 00
City Debt.....		87,600 00
Observance of Fourth of July, 1902.		10 00
Rebuilding Rifle Range Buildings..		5 25
Purchase of Wood.....		1,505 73
		<hr/>
		\$3,476,509 36
		<hr/>

## EXPENDITURES.

The whole amount expended and ordered to be paid from the Treasury from Jan. 1, to Dec, 31, 1902 was.....	\$3,514,896 36
	<hr/>
	\$3,514,896 36
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The expenditures were charged to the following appropriations or accounts :

Abatement of Taxes.....	\$	650 38
Assessors, Salaries.....		12,521 15
Sundries.....		1,652 35
Auditor, Salaries.....		3,295 05
Sundries .....		588 05
City Clerk, Salaries.....		4,102 85
Sundries ....		1,154 55
City Messenger, Salaries.....		1,200 00
Sundries ....		397 07
City Messenger, Lighting City Hall and Memorial Building.....		993 04

## EXPENDITURES—Continued.

City Treasurer, Salaries.....	\$ 7,226 71
Sundries .....	3,811 79
Clerk of Common Council.....	300 00
Clerk of Committees, Salary.....	1,200 00
Sundries .....	159 80
City Sealer, Salary.....	350 00
Sundries .....	74 15
Fish Warden, Salaries.....	40 00
Inspector of Animals and Provisions	
Salary .....	500 00
Inspector of Milk and Vinegar	
Salaries .....	2,126 00
Sundries .....	183 65
Inspector of Wires, Salaries.....	2,516 00
Sundries .....	531 61
Mayor, Salary and Sundries.....	4,584 14
Clerical Assistance and	
Stenography .....	465 30
Pound Keeper.....	5 00
City Weigher, Salary.....	800 00
Sundries .....	11 75
Registrars of Voters, Salaries.....	2,898 75
Printing and Sundries ....	1,034 63
Care of City Hall, Labor... ..	4,994 61
Police Officer.....	1,003 75
Sundries .....	1,346 71
City Cemeteries ... ..	8,958 17
Commons, Superintendent .....	1,200 00
Assistant Supt. 30 weeks..	383 64
Foreman Fort Hill Park	
30 weeks .....	419 00
Labor. ....	6,582 04
Sundries ....	2,804 53
Elections ....	6,492 56
State Supervisors .....	800 00
Engineering ....	16,224 29
Fire Department, Salaries.....	104,576 38
Sundries.....	22,973 76
Underground Wires.....	355 88
Health Office, Salaries and Labor ..	8,788 00
Sundries.....	2,952 32
Small Pox.....	6,626 20
Health, Yard, Labor.....	27,640 38
Sundries .....	6,606 29

## EXPENDITURES—Continued.

Heating City Hall and Memorial Building, Labor.....	\$ 2,943 00
Fuel,.....	2,100 15
Sundries .....	768 39
Huntington Hall.....	4,764 96
Incidentals.....	4,126 45
Insurance.....	4,710 01
Law Salaries.....	4,826 00
Sundries .....	1,319 82
Library.....	16,000 00
Lighting, Salaries and Sundries....	1,157 66
Electric Lights, Streets and Public Buildings.....	60,859 33
Gas, Streets, and Public Buildings.....	25,441 51
Gasolene Lights. ....	10,942 64
Liquor Licenses (25% to State)....	43,060 75
Paupers, Almshouse, Salaries.....	2,628 96
Labor .....	11,096 66
Grain, Groceries and Provisions .....	31,008 30
Sundries .....	21,455 82
Paupers, Out-Door Relief, Salaries.	4,638 92
Office Sundries and Transportation... ..	757 86
General Sundries.....	55,832 64
Police, Commissioners and Clerk... ..	4,700 00
Salaries and Labor.....	128,764 37
Sundries .....	6,577 40
Underground Wires.....	894 48
Public Buildings, Salaries.....	2,339 00
Labor.....	7,412 12
Sundries .....	7,177 04
Rifle Range .....	702 48
Schools.....	284,680 00
School Houses, Labor and Janitors.	48,221 76
Sundries .....	9,266 99
Sewer Maintenance.....	26,691 24
Sewer Construction .....	88,441 01
Sewer in Bowden St.....	1,108 44
Chase St.....	550 00
Court St.....	535 17
Central and Chapel Sts ...	573 63
Central St.....	400 00

## EXPENDITURES—Continued.

Meadowcroft St . . . . .	\$	4,584	49
West Street Outlet . . . . .		687	02
Western Ave., School and Rock Sts. . . . .		280	37
Streets, Salaries . . . . .		3,900	00
Yard Labor . . . . .		10,798	39
Labor on Streets and Boule- vard . . . . .		85,943	29
Sundries . . . . .		49,145	59
Macadamizing Canton St..		861	26
Macadamizing Chapel and Keene Sts. . . . .		1,541	85
Macadamizing Gibson St..		611	95
Macadamizing Nesmith and Rogers Sts. . . . .		1,930	48
Paving Arch St. . . . .		426	26
Smooth Paving Broadway and Suffolk Sts . . . .		53,838	98
Changing lines of Merri- mack and Pawtucket Sts. . . . .		531	00
Widening Andover St. . .		4,382	76
Supply Salaries and Labor . . . . .		5,311	52
Sundries . . . . .		951	96
Watering Streets . . . . .		14,194	35
Water Works . . . . .		208,400	99
State Aid, Office Expenses . . . . .		2,105	01
State Aid. . . . .		15,135	00
Military Aid . . . . .		6,332	00
Soldiers Relief . . . . .		8,633	53
Temporary Loans . . . . .		1,000,000	00
City Debt . . . . .		377,100	00
Interest . . . . .		124,414	55
Sinking Funds . . . . .		43,300	00
Corporation Tax Fund . . . . .		12,155	39
Edson Cemetery Annex . . . . .		15	75
Repairing City Stables. . . . .		1,148	78
Rebuilding Gorham St. Engine House . . . . .		11,940	11
Purchase of Swan Meadow . . . . .		275	00
Portraits of William McKinley and Jeremiah Crowley . . . .		400	00
Unpaid Claims of 1901 . . . . .		824	57
Portrait of William F. Courtney . .		300	00

## EXPENDITURES—Continued.

Care of Memorial Hall Relics.....	\$	200	00
Macadamizing Ames and Watson Sts		1,992	11
Macadamizing Agawam St.....		3,589	75
Extension of B St .....		3,186	64
Police Signal Boxes.....		1,904	26
Lowell Textile School.....		8,000	00
Police Station Addition and Improve- ments.....		8,330	74
Memorial Day 1902 .....		1,150	00
Salary of Robert V. Saunders.....		791	68
Municipal Band Concerts .....		649	27
Claim of Benjamin C. Shaw.....		150	00
Observance of Fourth of July 1902..		1,753	05
Observance of Old Home Week....		1,498	20
Improvement of Fort Hill Park Ex- tension.....		4,955	38
Claim of John Keefe.....		980	36
Taxes .....		295	16
Observance of Labor Day.....		988	00
Paving Kirk, Paige, Lee, Aiken, Charles and Westford Streets .....		37,069	85
Paving Merrimack and Pleasant Sts.		16,712	08
Sanitaries in Schools .....		74	45
Slabs for School Urinals.....		490	00
Claim of Harry Prescott Graves....		1,000	00
State Tax.....		42,474	29
Grade Crossing Tax.....		3,574	37
State Highway Tax.....		115	50
County Tax.....		78,689	73
National Bank Tax.....		11,035	04
Repair of Central Bridge.....		213	54
Widening and Grading Parker St ..		3,323	26
Rebuilding Rifle Range Buildings..		4,053	82
Repairs on City Stables and Sheds..		613	19
Purchase of Wood .....		6,057	32
General Treasury Fund.....		5	88

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\$3,514,896 36



Balance in the Treasury, Jan. 1, 1902 .....	\$ 121,900 81
Amount Received into the Treasury during the year 1902 .....	3,476,509 36
Total .....	<u>\$3,598,410 17</u>
Amount paid from the Treasury during the year 1902 .....	\$3,514,896 36
Balance in the Treasury, Dec. 31, 1902 .....	<u>83,513 81</u>

**CITY DEBT.**

Ordinary City Debt, Jan. 1, 1902 ..	\$2,518,890 29
Borrowed during the year 1902 ....	222,885 00
Total .....	<u>2,741,775 29</u>
Paid during the year 1902 .....	345,500 00
Total Ordinary City Debt, Dec. 31, 1902 .....	<u>\$2,396,275 29</u>
Water Debt, Jan. 1, 1902 .....	1,237,100 00
Paid during the year 1902 .....	31,600 00
Total Water Debt, Dec. 31, 1902 ..	<u>1,205,500 00</u>
Total City Debt, Dec. 31, 1902 ....	<u><u>\$3,601,775 29</u></u>

## CITY DEBT—Continued.

Ordinary City Debt, Jan. 1, 1903 ..	\$2,396,275 29	
Sinking funds for the payment of the same.....	342,237 40	
Net Ordinary City Debt, Jan. 1, 1903.....		\$2,054,037 89
Water Debt, Jan. 1, 1903.....	1,205,500 00	
Sinking Funds for the payment of the same.....	343,201 43	
Net Water Debt, Jan. 1, 1903 .....		862,298 57
Total Net Debt, Jan. 1, 1903.....		<u>2,916,336 46</u>
Total Net Debt, Dec. 31, 1901.....	3,086,686 84	
Total Net Debt, Dec. 31, 1902.....	2,916,336 46	
Decrease in Net City Debt during the year 1902.....	170,350 38	
Sinking Funds Ordinary City Debt which apply to limit of indebtedness.....	143,272 42	
Sinking Funds which do not apply..	198,964 98	
	342,237 40	
Water Loan Sinking Fund .....	343,201 43	
Total Sinking Fund.....	\$ 685,438 83	

## LIMIT OF INDEBTEDNESS.

Total City Debt Dec. 1, 1902.....		\$3,601,775 29
Deduct Water Loan.....	\$1,205,000 00	
Deduct Exemption by Legislature..	800,000 00	
Deduct Sinking Funds which apply to limit.....	143,272 42	2,148,772 42
City Debt as it relates to limit of in- debtedness .....		<u>\$1,453,002 87</u>

## LIMIT OF INDEBTEDNESS—Continued.

Limit of Municipal Debt. for 1903	
2½ % on \$71,418,016.00..	\$1,785,450 40
City Debt which relates to limit	
Dec. 31, 1902.....	1,453,002 87
	<hr/>
Distance from limit Dec. 31, 1902..	\$ 332,447 53
	<hr/> <hr/>

## LOANS, 1902.

Sewer Construction.....	\$ 85,000 00
Addition to Police Station.....	10,000 00
Police Signal Boxes .....	3,900 00
Improvement of Ft. Hill Park Ex-	
tension.....	5,000 00
Claim of John Keefe.....	980 36
Widening Andover St.....	2,219 64
Extension of B St.....	3,330 00
Corporation Tax Fund.....	10,000 00
Sanitaries in Schools.....	2,000 00
Slabs for School Urinals.....	500 00
Alteration in Heating Plant of Carter	
St., School.....	500 00
Alteration in Engine Houses.....	500 00
Paving Kirk, Paige, Lee, Aiken,	
Charles and Westford Sts..	38,950 00
Paving Merrimack and Pleasant Sts.	23,155 00
Rebuilding Rifle Range.....	2,000 00
Repairs on City Stables and Sheds..	3,500 00
Widening and Grading Parker St...	4,850 00
Purchase of Wood .....	6,500 00
General Treasury Fund, Sundry	
Departments .....	20,000 00
	<hr/>

\$222,885 00

## APPROPRIATIONS, 1902.

	Annual.	Additional.
Abatement of Taxes .....		\$ 10,326 29
Assessors Salaries.....	\$ 12,600 00	
Sundries .....	1,700 00	
Auditor, Salaries.....	3,550 00	
Sundries.....	700 00	
City Clerk, Salaries.....	4,528 00	
Sundries.....	1,372 00	
City Messenger's Salaries....	1,200 00	
Sundries.....	400 00	
Lighting City Hall and Memorial Building...	1,170 00	
City Treasurer, Salaries.....	7,226 71	
Sundries .....	4,000 00	
Clerk of Common Council. ....	300 00	
Clerk of Committees, Salary.....	1,200 00	
Sundries.....	200 00	
City Sealer, Salary.....	350 00	
Sundries .....	80 00	
Fish Warden, Salary..	40 00	
Sundries .....	5 00	
Inspector of Animals and Provisions Salary.....	500 00	
Inspector of Milk and Vinegar, Salaries .....	2,126 00	
Sundries.....	200 00	
Inspector of Wires, Salaries.....	2,500 00	16 00
Sundries.....	500 00	28 11
Mayor, Salary and Sundries .....	4,525 00	53 88
Clerical Assistance and Stenography .....	800 00	
Pound Keeper.....	5 00	
City Weigher, Salary.....	800 00	
Sundries .....	15 00	
Registrars of Voters, Salaries.....	2,900 00	
Printing and Sundries	900 00	133 83
Care of City Hall, Labor.....	5,005 25	
Police Officer.....	1,003 75	
Sundries .....	1,500 00	
City Cemeteries.....	8,000 00	954 34
Commons, Superintendent.....	1,200 00	
Assist. Supt. 30 weeks....	405 00	
Foreman Fort Hill Park, 30 weeks.....	420 00	

## APPROPRIATIONS—Continued.

	Annual.	Additional.
Commons, continued		
Labor .....	\$ 6,000 00	\$ 600 00
Sundries. ....	2,000 00	400 00
Elections. ....	6,300 00	192 56
State Supervisors .....		864 00
Engineering.....	7,500 00	
Fire Department, Salaries.....	104,525 00	600 00
Sundries. ....	23,475 00	
Health Office, Salaries and Labor..	8,831 00	
Sundries .....	3,000 00	
Small Pox.....	2,500 00	3,999 53
Yard Labor.....	26,800 00	840 38
Yard Sundries.....	4,500 00	1,963 29
Heating City Hall and Memorial Building,		
Labor .....	3,000 00	
Fuel .....	2,500 00	
Sundries.....	600 00	190 00
Huntington Hall.....	4,600 00	164 96
Incidentals.....	1,850 00	2,300 00
Insurance.....	4,723 00	
Law, Salaries .....	4,826 00	
Sundries .....	1,200 00	115 72
Library.....	16,000 00	
Lighting Salaries and Sundries.....	1,250 00	
Electric Lights, Streets and Public Buildings.....	60,988 00	
Gas, Streets and Public Buildings .....	25,601 00	
Gasoline Lights.....	11,156 00	
New Lights.....	500 00	
Liquor Licenses .....	43,361 00	
Paupers, Almshouse Salaries .....	2,700 00	
Labor .....	10,750 00	346 66
Grain, Groceries and Provisions .....	16,500 00	6,343 96
Sundries .....	19,550 00	
Paupers, Out Door Relief, Salaries.	3,782 50	
Office Sundries and Transportation .....	892 50	
General Sundries .....	47,325 00	8,292 11
Police Commissioners and Clerk....	4,700 00	

## APPROPRIATIONS—Continued.

	Annual.	Additional.
Police, Salaries and Labor .....	\$ 127,806 00	\$ 225 00
Sundries.. .....	6,000 00	600 00
Public Buildings, Salaries.....	2,346 00	
Labor .....	7,000 00	300 00
Sundries.....	7,950 00	
Rifle Range.....	700 00	2 48
Schools.....	275,000 00	9,654 98
School Houses, Labor and Janitors.	44,500 00	300 00
Sundries .. .....	8,000 00	452 48
Sewer Maintenance .....	23,500 00	
Sewer Construction .....		88,011 53
Streets, Salaries .....	3,900 00	
Yard Labor.....	12,000 00	
Labor on Streets and Boule-		
vard.....	91,000 00	
Sundries .....	45,250 00	
Widening Andover St.....		2,219 64
Supply, Salaries and Labor.....	5,300 00	11 52
Sundries .....	875 00	33 19
Watering Streets.....	14,700 00	
State Aid Office Expenses.....	2,095 00	6 51
State Aid .....	15,000 00	100 50
Military Aid .....	7,800 00	
Soldiers Relief.....	8,600 00	12 53
Temporary Loans.....		1,100,000 00
City Debt.....	289,500 00	
Interest .....	125,000 00	
Sinking Funds.....	43,300 00	
Corporation Tax Fund.....		10,000 00
Unpaid Claims of 1901 .....		824 57
Portrait of William F. Courtney....		300 00
Care of Memorial Hall Relics.....		200 00
Macademizing Ames and Watson Sts		2,236 69
Macademizing Agawam St.....		4,243 34
Extension of B St.....		3,300 00
Police Signal Boxes.....		3,900 00
Lowell Textile School.....		8,000 00
Police Station Addition and Improve-		
ments .....		10,000 00
Memorial Day 1902.....		1,150 00
Salary of Robert V. Saunders.....		791 68

## APPROPRIATIONS—Continued.

	Annual.	Additional.
Municipal Band Concerts .....		650 00
Claim of Benjamin C. Shaw.....		150 00
Observance of Fourth of July 1902.		2,000 00
Observance of Old Home Week....		1,500 00
Improvement of Fort Hill Park Ex-		
tension.....		5,000 00
Claim of John Keefe.....		980 36
Taxes .....		295 16
Observance of Labor Day.....		1,000 00
Oil Portrait of Charles A. R. Dimon		300 00
Paving Kirk, Paige, Lee, Aiken		
Charles and Westford Sts..		38,950 00
Paving Merrimack and Pleasant Sts.		23,155 00
Sanitaries in Schools .....		2,000 00
Slabs for School Urinals.....		500 00
Alteration in Carter St., School		
Heating Plant.....		500 00
Alteration in Pawtucketville, Race		
St. and Fletcher St. Engine		
Houses.....		500 00
Claim of Harry Prescott Graves....		1,000 00
State Tax .....		42,474 29
Grade Crossing Tax....		3,574 37
State Highway Tax.....		115 50
County Tax.....		78,689 73
National Bank Tax.....		11,035 04
Repair of Central Bridge.....		2,500 00
Widening and Grading Parker St ..		4,850 00
Rebuilding Rifle Range Buildings.		5,000 00
Repairs on City Stables and Sheds..		3,500 00
Purchase of Wood.....		6,500 00

<u>\$1,724,834 71</u>	<u>\$1,522,321 71</u>
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Respectfully submitted,

DAVID CHASE, *Auditor.*



## APPROPRIATIONS AND EXPENDITURES.

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THE AMOUNT OF THE UNEXPENDED BALANCE OF 1901—  
THE AMOUNT OF THE SEVERAL APPROPRIATIONS MADE  
BY THE CITY COUNCIL DURING THE YEAR 1902— THE  
AMOUNT RECEIVED INTO THE TREASURY FROM ALL  
SOURCES— THE EXPENDITURES IN DETAIL, UNDER EACH  
APPROPRIATION, AND THE UNDRAWN BALANCES DECEM-  
BER 31, 1902—ALSO THE AMOUNT OF THE CITY DEBT  
— DEBTS DUE THE CITY— SCHEDULES OF THE VALUE  
OF REAL AND PERSONAL PROPERTY, ETC.



## ABATEMENT OF TAXES.

## ASSESSOR'S, SALARIES—CONTINUED.

## EXPENDITURES.

## Paid Principal Assessors :

Abel Wheeler.....	\$2,250 00	
John P. Mahoney.....	2,250 00	
C. Arthur Abbott.....	2,250 00	
	<hr/>	\$6,750 00

## Assistant Assessors :

George E. Caisse.....	\$156 00	
Richard Charlton.....	156 00	
Thomas Garvey.....	156 00	
John C. King.....	156 00	
Robert L. Read.....	156 00	
Charles Riley.....	156 00	
	<hr/>	936 00

## Clerks :

Stephen J. Kirby.....	\$1,600 00	
William J. Reardon.....	1,200 00	
James T. Dunfey.....	1 25	
Charles C. Hartwell.....	320 00	
Harry S. Lawrence.....	386 25	
Andrew Liddell.....	297 50	
Eugene Mayrand.....	257 50	
George E. Owen.....	327 50	
Frank B. Peabody.....	327 50	
	<hr/>	4,717 50

## Interpreters :

Henry Beaupartant.....	50	
Peter Garo.....	30 00	
Michael Iatros.....	60 00	
Walter S. Smith.....	27 15	
	<hr/>	117 65
		<hr/>
		12,521 15

Transferred to General Treasury  
Fund.....

78 85
<hr/>
\$12,600 00
<hr/>

## ASSESSOR'S, SUNDRIES.

Appropriation.....	\$1,700 00	
Receipt ( N. E. Tel. & Tel. Co.)..	3 50	
	<hr/>	1,703 50
		<hr/>

## EXPENDITURES

Blank Books, Printing, Stationery, etc.,		
To Commonwealth of Mass.....	6 00	
Courier-Citizen Co.....	38 50	
Dumas & Co.....	159 85	
J. M. Fellows.....	3 00	
Thomas H. Lawler.....	4 50	
Marietta L. McGrath.....	5 00	
G. C. Prince & Son.....	21 30	
The Review and Record Co...	5 00	
Sampson, Murdock & Co.....	18 00	
F. A. M. Tobin.....	5 50	
Union Printing Co.....	1,278 00	
	<hr/>	\$1,544 65
Telephone		
To N. E. Tel. & Tel. Co.....	32 05	
	<hr/>	32 05
American Express Co.....	15	
C. Arthur Abbott.....	56 50	
J. P. Mahoney.....	6 00	
Abel Wheeler.....	1 00	
D. L. Page Co.....	12 00	
	<hr/>	75 65
		<hr/>
		\$1,652 35
Transferred to General Treasury...		
Fund.....		51 15
		<hr/>
		\$1,703 50
		<hr/>

## AUDITOR, SALARIES.

Appropriation.....	\$3,550 00	
	<hr/>	\$3,550 00
		<hr/>

## AUDITOR, SALARIES.

## EXPENDITURES.

David Chase, Auditor .....	1,800 00	
Thomas P. Sullivan, Clerk....	431 55	
Mrs. F. P. Willard.....	82 00	
James T. Dunfey.....	557 50	
Clinton P. Tuttle.....	424 00	
	<hr/>	3,295 05
Transferred to General Treasury... Fund.....		254 95
		<hr/>
		<u>3,550 00</u>

## AUDITOR, SUNDRIES.

Appropriation.....	\$700 00	
Received from N. E. Tel. & Tel. Co.....	5 33	
	<hr/>	\$705 33

## EXPENDITURES.

Telephone.....		
To N. E. Tel. and Tel. Co.....	47 97	
	<hr/>	47 97
Blank Books, Stationery, Printing, etc.,		
To Buckland Printing Co.....	16 00	
Carter's Ink Co.....	38	
Courier Citizen Co.....	135 25	
Dumas & Co.....	61 73	
Thomas H. Lawler.....	1 00	
Lawler Printing Co.....	253 65	
G. C. Prince & Son.....	21 50	
Sampson, Murdock & Co....	3 00	
F. A. M. Tobin.....	43 25	
	<hr/>	535 78
Carriage Hire etc.,		
American Express Co.....	30	
J. F. O'Donnell.....	2 00	
J. H. Sparks.....	2 00	
	<hr/>	4 30
Amount carried forward.....		<hr/>
		<u>\$588 05</u>

## AUDITORS, SUNDRIES—Continued.

Amount brought forward.....	\$ 588 05
Transferred to General Treasury Fund.....	117 28
	<u>705 33</u>

## CITY CLERK, SALARIES.

Appropriation.....	\$4,528 00
	<u>\$4,528 00</u>

## EXPENDITURES.

To Girard P. Dadman.....	\$1,800 00
William P. McCarthy....	1,500 00
Belle C. Hill.....	730 35
Georgia Storey.....	40 00
Edwards Cheney.....	32 50
	<u>\$4,102 85</u>
Transferred to General Treasury Fund.....	425 15
	<u>\$4,528 00</u>

## CITY CLERK, SUNDRIES.

Appropriation.....	\$1,372 00
Received from Sundry Sources....	9 53
	<u>\$1,381 53</u>

## EXPENDITURES.

Books, Stationery, Printing, etc..	
To Baker Printing Co.....	\$19 95
Buckland Printing Co.....	15 50
Carter's Ink Co.....	2 25
Courier-Citizen Co.....	20 00
	<u>\$57 70</u>
Amount carried forward.....	\$57 70



## CITY CLERK SUNDRIES—Continued.

Amount brought forward.....	\$57 70	
To G. P. Dadman. ....	47 55	
Daily News Co.....	6 00	
Dumas & Co.....	80 00	
A. N. Harmon....	5 00	
C. F. Hatch & Co.....	3 75	
Thomas H. Lawler. ....	3 00	
Lawler Printing Co.....	7 20	
Libby Printing Co.....	14 75	
Lowell Bill Posting .....	9 00	
Lowell Daily Mail.....	3 00	
Lowell Sun.....	3 00	
Henry M. Meek Publishing Co	18 00	
Mdsx. Typewriting Co.....	2 00	
G. C. Prince & Son....	8 28	
Simpson, Murdock & Co.....	6 00	
Smith Premier Typewriting Co.	113 40	
Tilton & Co.....	2 50	
F. A. M. Tobin.....	22 45	
Union Printing Co.....	31 50	
Frank M. Wells.....	15 00	
	<hr/>	\$459 08

## TELEPHONE, TRANSPORTATION, ETC.

To N. E. Tel. & Tel. Co.....	49 92	
American Express Co.....	2 65	
Man. & Con. Ex. Co.....	2 80	
	<hr/>	\$55 37

## REPORTING BIRTHS.

To W. A. Arnold.....	24 00	
C. W. Bell.....	17 60	
Fred N. Edgell....	15 10	
Henry P. Farley.....	17 80	
Matthew H. Gilroy .....	27 90	
Charles C. Hartwell.....	48 30	
Joseph E. Guimond.....	17 60	
Waldo F. Miles.....	15 80	
Frank B. Peabody.....	12 90	
	<hr/>	
Amounts carried forward.....	\$197 00	\$514 45

## CITY CLERK, SUNDRIES :—CONTINUED

Amounts brought forward...	\$197 00	\$514 45
To Sundry Persons.....	\$422 50	
	<hr/>	\$619 50
Sundries		
To Carroll Bros.....	17 10	
Gookin Bros.....	3 50	
	<hr/>	20 60
		<hr/>
		\$1,154 55
Transferred to General Treasury...		
Fund.....		226 98
		<hr/>
		\$1,381 53
		<hr/>

## CITY MESSENGER, SALARIES

Appropriation.....	\$1,200 00	
	<hr/>	\$1,200 00
		<hr/>

## EXPENDITURES.

To Joseph E. Pattee.....	\$1,200 00	
	<hr/>	\$1,200 00
		<hr/>

## CITY MESSENGER, SUNDRIES

Appropriation.....	\$400 00	
Received from N. E. Tel. & Tel...	6 30	
	<hr/>	\$406 30
		<hr/>

## EXPENDITURES.

Stationery, Printing, Books, Etc.		
To Carter Ink Co.....	\$ 75	
Courier-Citizen Co.....	3 25	
Ft. Hill Paper Co.....	75	
	<hr/>	
Amount carried forward.....	4 75	

## CITY MESSENGER, SUNDRIES—Continued.

Amount brought forward.....	\$4 75	
Thomas H. Lawler.....	2 50	
Libby Printing Co.....	47 50	
G. C. Prince & Son.....	83 50	
Samson, Murdock & Co.....	21 00	
Smith-Premier Typewriting Co	97 50	
Union Printing Co.....	2 00	
	<hr/>	\$258 75
Telephone		
To N. E. Tel. & Tel. Co.....	\$64 65	
W. U. Tel. Co.....	27	
	<hr/>	64 92
Transportation, Carriage Hire, Etc.		
To American Express Co.....	\$ 45	
B. & M. R. R....	40 00	
Man. & Con. Express Co....	15	
Morse Coach Co.....	35	
J. H. Sparks .....	29 45	
J. A. Weinbeck .....	3 00	
	<hr/>	73 40
		<hr/>
		\$397 07
Transferred to General Treasury...		
Fund .....		9 23
		<hr/>
		\$406 30
		<hr/>

## CITY MESSENGER, LIGHTING

Appropriation.....	\$1,170 00	
	<hr/>	\$1,170 00
		<hr/>

## EXPENDITURES.

To Lowell Gas Light Co.....	\$220 77	
Lowell Electric Light Corp....	772 27	
	<hr/>	\$993 04
Transferred to General Treasury...		
Fund.....		176 96
		<hr/>
		\$1,170 00
		<hr/>

## CITY TREASURER, SALARIES

Appropriation.....	\$7,226 71	
	<hr/>	\$7,226 71
		<hr/>

## EXPENDITURES.

To Andrew G. Stiles, City.....		
Treasurer.....	\$2,700 00	
Joseph Farrell, Clerk.....	1,500 00	
Charles C. Wilson, Clerk.....	939 00	
James S. O'Sullivan, Clerk....	939 00	
Minnie Freeman, Clerk.....	626 00	
Kittie Miskella, Clerk.....	522 71	
	<hr/>	\$7,226 71
		<hr/>

## CITY TREASURER, SUNDRIES.

Appropriation.....	\$4,000 00	
Received from N. E. Tel. and Tel. Co	5 93	
	<hr/>	4,005 93
		<hr/>

## EXPENDITURES.

## Books, Stationery, Printing, Advertising, Etc.

To Boston News Bureau.....	\$ 13 00
Buckland Printing Co.....	65 50
Courier-Citizen Co.....	214 00
Daily News Co.....	83 85
Daily News Job Print.....	3 00
Dumas & Co.....	115 25
Thomas H. Lawler.....	8 25
Lepine & Co.....	111 55
Lowell Daily Mail.....	110 50
Lowell Sun.....	106 00
Pneumatic Hand Stamp Co....	11 38
G. C. Prince & Son.....	60 55
Sampson, Murdock & Co.....	6 00
Smith Premier Typewriting Co.	2 20
Andrew G. Stiles.....	636 00
	<hr/>
Amount carried forward.....	1,547 03

## CITY TREASURER, SUNDRIES—Continued.

Amount brought forward.....	\$1,547 03	
The Reveiw and Record Co...	5 00	
F. A. M. Tobin .....	182 50	
M. G. Wight & Co .....	34 43	
	<hr/>	\$ 1,768 96
Serving Warrants :		
To Enoch Gerrish .....	515 50	
Charles C. Hartwell.....	185 50	
John McManus.....	465 50	
Eugene L. Woodbury .....	62 50	
	<hr/>	\$1,229 00
Writing and Distributing Tax Bills :		
To Richard Charlton.....	80 00	
James J. Courtney.....	60 00	
Thomas F. Garvey.....	62 50	
Enoch Gerrish.....	60 00	
Frank B. Hough.....	67 50	
Victor P. Landry .....	72 50	
James H. Pindar....	55 00	
John McManus .....	8 75	
Robert L. Read .....	62 50	
Joseph Wright .....	67 50	
	<hr/>	\$ 596 25
Sundries :		
To N. E. Tel. & Tel. Co.....	\$ 53 08	
J. H. Sparks.....	1 40	
A. G. Stiles .....	50	
E. M. Tucke.....	100 00	
Mdsx. Registry of Deeds.....	8 60	
W. A. Mack & Co .....	54 00	
	<hr/>	217 58
		<hr/>
		3,811 79
Transferred to General Treasury		
Fund.....		194 14
		<hr/>
		\$4,005 93
		<hr/>

## CLERK OF COMMON COUNCIL.

Appropriation.....	\$300 00	
	<u>          </u>	<u>\$300 00</u>

## EXPENDITURES.

To Frank M. Dowling, Clerk.....	\$300 00	
	<u>          </u>	<u>\$300 00</u>

## CLERK OF COMMITTEES, SALARY.

Appropriation.....	\$1,200 00	
	<u>          </u>	<u>\$1,200 00</u>

## EXPENDITURES.

To Frank M. Dowling.....	1,200 00	
	<u>          </u>	<u>\$1,200 00</u>

## CLERK OF COMMITTEES, SUNDRIES.

Appropriation.....	200 00	
	<u>          </u>	<u>\$200 00</u>

## EXPENDITURES.

Books, Stationery, Printing, Advertising, Etc.

To Courier-Citizen Co.....	\$30 00	
Helen A. Dimon... . . . .	14 00	
Dumas & Co.....	2 75	
Harry C. Kittredge.....	2 50	
Thomas H. Lawler.....	7 65	
Libby Printing Co.....	8 00	
Mdsx Typewriting Co.....	9 00	
G. C. Prince & Son.....	17 85	
Thorp & Martin Co.....	2 55	
Union Printing Co.....	2 00	
Wyckoff, Seamens' & Benedict.	12 00	
	<u>          </u>	<u>\$108 30</u>
Amount carried forward.....		<u>\$108 30</u>

## CLERK OF COMMITTEES, SUNDRIES—Continued.

Amount brought forward.....		\$108 30
Sundries :		
To American Express Co.....	1 00	
B. & M. R. R.....	40 50	
J. H. Sparks.....	10 00	
	<hr/>	51 50
		<hr/>
		159 80
Transferred to General Treasury Fund.....		40 20
		<hr/>
		\$200 00
		<hr/>
		<hr/>

## CITY SEALER SALARY.

Appropriation.....	350 00	
	<hr/>	\$350 00
		<hr/>
		<hr/>

## EXPENDITURES.

James R. Fulton, City Sealer.....	350 00	
	<hr/>	\$350 00
		<hr/>
		<hr/>

## CITY SEALER, SUNDRIES.

Appropriation.....	80 00	
	<hr/>	\$80 00
		<hr/>
		<hr/>

## EXPENDITURES.

To Courier-Citizen Co.....	\$3 50	
Daily News Co.....	2 60	
Lepine & Co.....	2 00	
Knowles Scale Works.....	12 80	
James Leach.....	53 25	
	<hr/>	74 15
Transferred to General Treasury Fund.....		5 85
		<hr/>
		\$80 00
		<hr/>
		<hr/>



## FISH WARDEN'S SALARY.

Appropriation.....	\$40 00	
	<u>          </u>	<u>\$40 00</u>

## EXPENDITURES.

To Charles W. Swan, Fish Warden .	40 00	
	<u>          </u>	<u>\$40 00</u>

## FISH WARDEN, SUNDRIES.

Appropriation.....	5 00	
	<u>          </u>	<u>\$5 00</u>
Transferred to General Treasury Fund.....	5 00	
	<u>          </u>	<u>\$5 00</u>

## INSPECTOR OF ANIMALS AND PROVISIONS, SALARY.

Appropriation ....	500 00	
	<u>          </u>	<u>\$500 00</u>

## EXPENDITURES.

To W. A. Sherman, Salary.....	500 00	
	<u>          </u>	<u>\$500 00</u>

## INSPECTOR OF MILK AND VINEGAR, SALARIES.

Appropriation.....	2,126 00	
	<u>          </u>	<u>\$2,126 00</u>

## INSPECTOR OF MILK AND VINEGAR, SALARIES—Continued.

## EXPENDITURES.

To Thomas O. Allen, Inspector..	1,500 00	
James E. Hill, Collector.....	626 00	
	<hr/>	\$2,126 00

## INSPECTOR OF MILK AND VINEGAR, SUNDRIES.

Appropriation.....	200 00	
	<hr/>	\$200 00

## EXPENDITURES.

## Labor :

To Appropriation for Public Build- ings, Labor..	20 00	
Patrick Brady,.....	75	
John Cross .....	1 00	
Tucke & Parker.....	5 05	
	<hr/>	\$26 80

Printing, Stationery, Advertising,  
Etc. :

To Buckland Printing Co.....	9 00	
Courier-Citizen Co.....	1 50	
Dumas & Co .....	10 75	
B. M. & M. E. Hutchins .....	2 50	
Thomas H. Lawler .....	75	
Lowell Sun .....	1 25	
G. C. Prince & Son.....	12 00	
Sampson, Murdock & Co.....	3 00	
Sunday Telegram .....	1 88	
F. A. M. Tobin.....	32 40	
	<hr/>	75 03

Amount carried forward.....		\$101 83
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## INSPECTOR OF MILK AND VINEGAR, SUNDRIES—Continued.

Amount brought forward.....		\$101 83
Laboratory Supplies :		
To Thomas O. Allen.....	5 08	
H. R. Barker Mfg. Co.....	50	
C. B. Coburn & Co.....	2 15	
Eimer & Amend.....	15 04	
W. A. Mack & Co .....	50 16	
Talbot Dyewood & Chemical Co	5 09	
		<hr/>
		78 02
Transportation and Carriage Hire :		
To American Express Co.....	55	
N. Y. & B. Des. Express Co..	25	
Morse Coach Co.....	3 00	
		<hr/>
		3 80
		<hr/>
		\$183 65
Transferred to General Treasury Fund.....		
		16 35
		<hr/>
		\$200 00
		<hr/>

## INSPECTOR OF WIRES, SALARIES.

Appropriation.....	\$2,500 00	
Additional Appropriation.....	16 00	
	<hr/>	
		\$2,516 00
		<hr/>

## EXPENDITURES.

To James F. McElholm, Inspector	1,500 00	
Robert M. Dwyer.....	390 00	
Marietta L. McGrath.....	626 00	
	<hr/>	
		\$2,516 00
		<hr/>

# AUDITOR'S REPORT.

## INSPECTOR OF WIRES. SUNDRIES.

### EXPENDITURES.

Appropriation.....	500 00	
Additional Appropriation.....	28 11	
Received from N. E. Tel. & Tel. Co	3 50	
		<u>\$531 61</u>

### EXPENDITURES.

#### Stationery, Printing, Etc.

To Baker Printing Co.....	14 70	
Electrical Review.....	3 00	
J. M. Fellows.....	3 00	
Thomas H. Lawler.....	5 90	
Municipal Journal and Engineer	6 00	
G. C. Prince & Son.....	18 20	
Sampson, Murdock & Co.....	3 00	
F. A. M. Tobin.....	14 00	
		<u>67 80</u>

#### Telephone :

To N. E. Tel. & Tel. Co.....	31 50	
		<u>31 50</u>

#### Repairing Carriages, Harnesses, Etc

To F. J. Doherty ...	15 00	
Donovan Harness Co.....	14 90	
E. P. Flanders & Co.....	5 25	
F. B. Hill & Co.....	47 30	
C. F. Morse .....	7 50	
Sawyer Carriage Co.....	3 80	
		<u>93 75</u>

#### Keeping and Shoeing Horse :

To Owen J. Carney.....	19 75	
J. J. Donnelly.....	2 00	
P. F. McNulty.....	96	
J. H. Sparks.....	270 50	
Henry Reynolds.....	4 00	
		<u>297 21</u>

Amount carried forward.....		<u>\$490 26</u>
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## INSPECTOR OF WIRES, SUNDRIES—Continued.

Amount carried forward.....		\$490 26
Transportation :		
To B. & M. R. R.....	40 25	
J. F. McElholm .....	1 10	
	<hr/>	41 35
		<hr/>
		<u>\$531 61</u>

## MAYOR, SALARIES AND SUNDRIES.

Appropriation.....	4,525 00	
Additional Appropriation.....	53 88	
Received from N. E. Tel. & Tel. Co	5 26	
	<hr/>	\$4,584 14

## EXPENDITURES.

## Salaries :

To Charles A. R. Dimon, Mayor...	1,169 35	
William E. Badger, Acting		
Mayor.....	1,747 32	
James G. Hill, Acting Mayor.	83 33	
Anthony A. Conway, Secretary	500 00	
Charles W. Bell Secretary.....	700 00	
	<hr/>	\$4,200 00

## Books, Stationery, Etc.

To Baker Printing Co.....	29 38	
Commonwealth. of Mass.....	6 00	
C. D. Davis .....	2 00	
Thomas H. Lawler .....	37 45	
Lowell Daily News Co.....	6 00	
Lowell Daily Mail.....	3 00	
Lowell Sun.....	11 75	
	<hr/>	
Amounts carried forward.....	\$95 58	\$4,200 00

## MAYOR SALARIES AND SUNDRIES—Continued.

Amounts brought forward.....	\$95 58	\$4,200 00
To H. C. Kittredge .....	2 25	
Mdsx Typewriting Co.....	10 00	
Sampson, Murdock & Co.....	3 00	
Smith, Premier Typewriter Co.	19 13	
Thorpe & Martin Co.....	4 55	
G. C. Prince & Son.....	67 15	
F. A. M. Tobin.....	3 35	
	<hr/>	205 01
Transportation, Carriage Hire, Etc.		
To American Express Co.....	1 30	
B. & M. R. R.....	20 25	
O. P. Davis.....	2 00	
J. A. Gregoire .....	39 00	
Morse Coach Co.....	5 05	
N. Y. & B. Ex. Des. Co.....	25	
O. W. Peabody... ..	6 00	
J. H. Sparks .....	54 30	
	<hr/>	128 15
Sundries :		
To N. E. Tel. & Tel. Co.....	22 98	
D. L. Page Co.....	4 75	
J. E. Pattee.....	21 50	
U. S. Cartridge Co.....	1 50	
W. U. Tel. Co.....	25	
	<hr/>	50 98
		<hr/>
		\$4,584 14
		<hr/>

## MAYOR, STENOGRAPHY AND TYPEWRITING.

Appropriation.....	800 00	
		<hr/>
		\$800 00
		<hr/>

## MAYOR STENOGRAPHY AND TYPEWRITING—Continued.

## EXPENDITURES.

To William J. Meloy.....	333 30	
Annie Crossley .....	132 00	
	<hr/>	465 30
Transferred to General Treasury Fund.....		334 70
		<hr/>
		\$800 00
		<hr/>

## POUND KEEPER.

Appropriation.....	5 00	
	<hr/>	\$5 00
		<hr/>

## EXPENDITURES.

To O. W. Peabody,.....	4 <sup>1</sup> / <sub>2</sub> 79	
Lawrence J. Thyne.....	21	
	<hr/>	\$5 00
		<hr/>

## CITY WEAIGHER, SALARY.

Appropriation.....	800 00	
	<hr/>	\$800 00
		<hr/>

## EXPENDITURES.

To George F. Noonan.....	800 00	
	<hr/>	\$800 00
		<hr/>



## CITY WEIGHER, SUNDRIES,

Appropriation.....	15 00	
	<hr/>	<u>\$15 00</u>

## EXPENDITURES.

To Gookin Bros., Settee.....	3 00	
F. A. M. Tobin.....	8 75	
	<hr/>	11 75
Transferred to General Treasury...		
Fund.....		3 25
		<hr/>
		<u>\$15 00</u>

## REGISTRARS OF VOTERS, SALARIES.

Appropriation.....	2,900 00	
	<hr/>	<u>\$2,900 00</u>

## EXPENDITURES.

## Registrars :

To Girard P. Dadman.....	550 00	
James F. Owens.....	550 00	
John P. Farley .....	550 00	
Albert J. Blason.....	550 00	
	<hr/>	\$2,200 00

## Clerks :

To Edwards Cheney.....	22 50	
Harry P. Farley.....	232 50	
Andrew Fay .....	48 75	
Joseph Guimond.....	32 50	
Harry Lawrence.....	25 00	
Waldo F. Miles.....	233 75	
James F. McCarthy Jr.....	55 00	
Frank B. Peabody .....	48 75	
	<hr/>	

Amount carried forward.....		<u>\$2,898 75</u>
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## REGISTRARS OF VOTERS, SALARIES—Continued.

Amount brought forward.....	\$ 2,898 75
	<hr/>
	2,898 75
Transferred to General Treasury...	
Fund .....	1 25
	<hr/>
	\$2,900 00
	<hr/> <hr/>

## REGISTRARS OF VOTERS, PRINTING AND SUNDRIES.

Appropriation.....	\$900 00	
Additional Appropriation.....	133 83	
	<hr/>	1,033 83
Receipts (D. L. Page & Co. Over-		
draft).....	80	80
	<hr/>	<hr/>
		\$1,034 63
		<hr/> <hr/>

## EXPENDITURES.

## Printing, Stationery, Etc.

To Buckland Printing Co .....	15 00
Courier-Citizen Co.....	741 76
Daily News Co.....	3 25
Helen A. Dimon.....	4 00
Dumas & Co.....	90 23
F. Blanche Hard.....	6 75
B. M. & M. E. Hutchins.....	6 35
Lepine & Co.....	2 50
Libby Printing Co.....	8 13
Lowell Daily Mail.....	2 50
Lowell Sun .....	1 25
Lowell Bill Posting Co.....	26 00
Mdsx Typewriting Co .....	2 50
G. C. Prince & Son.....	1 20
Sampson, Murdock & Co.....	6 00
W. H. Spaulding & Co.....	4 50
	<hr/>
Amount carried forward.....	\$921 92

## REGISTRARS OF VOTERS, PRINTING AND SUNDRIES—Continued.

Amount brought forward.....	\$921 92	
J. H. Sparks.....	2 00	
F. A. M. Tobin.....	7 50	
Union Printing Co.....	6 25	
C. Zimmer.....	1 00	
M. G. Wight & Co.....	59 16	
	<hr/>	\$997 83
Sundries :		
To Rockingham Hotel.....	8 35	
D. L. Page Co.....	28 45	
	<hr/>	\$36 80
		<hr/>
		<u>\$1,034 63</u>

## CARE OF CITY HALL, LABOR.

Appropriation.....	\$5,005 25	
	<hr/>	\$5,005 25

## EXPENDITURES.

Paid Sundry persons, labor.....	4,994 61	4,994 61
Transferred to General Treasury...		
Fund.....		10 64
		<hr/>
		<u>\$5,005 25</u>

## CARE OF CITY HALL, POLICE OFFICER.

Appropriation.....	1,003 75	
	<hr/>	\$1,003 75

## EXPENDITURES.

Paid Appropriation for Police for services of Officers.....	1,003 75	
	<hr/>	\$1,003 75

## CARE OF CITY HALL, SUNDRIES

Appropriation.....	\$1,500 00	
	<hr/>	\$1,500 00
		<hr/>

## EXPENDITURES.

## Repairing Furniture, Clocks, Etc.

To Adams & Co.....	56 05	
John Cross.....	2 50	
Henry C. Girard.....	2 49	
George E. Hutchins.....	2 93	
Alvin Lawrence.....	50 00	
Mahoney Bros.....	1 00	
O'Donnell, Gilbride Co.....	15 70	
A. Simard.....	2 00	
	<hr/>	\$132 67

## Decorations :

To Paul R. Burtt.....	25 00	
Harvey B. Greene.....	20 00	
R. A. Griffiths.....	20 00	
C. L. Marshall.....	20 00	
O'Donnell & Gilbride Co.....	4 53	
Patten, The Florist.....	50 00	
J. E. Shanley & Co.....	5 58	
Whittet & Co.....	100 50	
	<hr/>	250 61

## Furniture, Carpets, Etc.

To Adams & Co.....	94 00	
Lowell Steam Carpet Cleaning		
Works.....	120 64	
O'Donnell & Gilbride Co.....	63 95	
A. G. Pollard & Co.....	15 00	
	<hr/>	293 59

Amount carried forward.....		\$676 87
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## CARE OF CITY HALL—Continued.

Amount brought forward..... \$676 87

## Cleaning Supplies :

To C. B. Coburn & Co.....	41 23	
E. P. Flanders & Co.....	3 60	
Frye & Crawford.....	3 30	
Goldena Mfg. Co.....	18 00	
India Alkali Works.....	37 18	
A. L. Kittredge & Co.....	18 00	
O'Donnell & Gilbride Co.....	14 60	
G. C. Prince & Son.....	12 25	
J. E. Shanley & Co.....	6 56	
Simpson & Rowland.....	5 90	
Thompson Hardware Co.....	6 00	
		<hr/>
		166 62

## Sundries :

To Appropriation for Commons...	39 50	
Appropriation fo Water Work .	151 57	
Carters Ink Co.....	75	
Daniel Gage .....	211 01	
Charles E. Gee.....	1 25	
Thomas H. Lawler.....	10 80	
C. F. Morse.....	37 35	
O'Donnell & Gilbride Co .....	25 00	
G. C. Prince & Co .....	25 99	
		<hr/>
		503 22

1,346 71

Transferred to General Treasury...

Fund..... 153 29

\$1,500 00

## CITY CEMETERIES.

Appropriation.....	\$8,000 00	
Additional Appropriation.....	954 34	
		<hr/>
Receipts, (N. E. Tel. & Telg. Co..	3 83	
		<hr/>
		8,954 34
		3 83
		<hr/>
		<u>\$8,958 17</u>

## CITY CEMETERIES, —Continued.

## EXPENDITURES.

Paid Wm. W. Clark, Superintendent	1,188 04	
Sundry persons for labor. ....	4,871 85	
Appropriation for Engineering	6 36	
	<hr/>	\$6,066 25
Water, Lighting and Telephone :		
To Appropriation for Water Works	184 85	
Lowell Gas Light Co.....	27	
N. E. Tel. & Tel. Co.....	36 07	
	<hr/>	221 19
Lumber Hardware, Etc :		
To Pratt & Forrest.....	40 24	
E. P. Flanders & Co.....	204 36	
F. L. Mealey.....	3 00	
Thompson Hardware Co.....	6 26	
	<hr/>	253 86
Pipe, Fittings, Labor, Etc.		
To H. R. Barker Mfg. Co.. ....	177 34	
T. Costello & Co .....	15 00	
John E. Drury .....	18 00	
D. J. Leary .....	31 54	
Henry Roper.....	2 00	
Pevey Bros .....	23 52	
	<hr/>	267 40
Painter's Supplies :		
To C. B. Coburn & Co.....	14 03	
A. L. Kittredge & Co .....	7 52	
Talbot Dyewood & Chemical Co	50	
	<hr/>	22 05
To Harvey B. Greene for Plants and Shrubs .....	300 00	
	<hr/>	\$300 00
Amount carried forward .....		<hr/> \$7,130 75

## CITY CEMETERIES, SUNDRIES—Continued.

Amount brought forward. . . . . \$7,130 75

## Stable Supplies :

To W. P. Foye & Co. . . . .	27 35	
Joseph Mullin. . . . .	35 60	
T. J. McDonald. . . . .	81 00	
H. E. Noyes & Son. . . . .	51 77	
O. D. Wilder. . . . .	53 00	
C. F. Kappler. . . . .	34 50	
A. Parsons. . . . .	4 75	
J. H. Sparks. . . . .	6 00	
Geo. F. Allen. . . . .	10 35	
Robert Barris . . . . .	111 10	
Donovan Harness Co. . . . .	6 50	
Henry J. O'Dowd. . . . .	155 00	
		<hr/>
		576 92

## Fuel, Manure, Loam, Etc.

To Wm. E. Livingston Co. . . . .	6 15	
Moore & Bennett Coal Co. . . . .	12 10	
Joseph Mullin. . . . .	63 81	
E. Bibeault . . . . .	20 00	
P. P. Connors & Co. . . . .	52 50	
R. Wilson Dix . . . . .	28 10	
Thomas Eagan. . . . .	110 92	
M. Horlink . . . . .	81 00	
Mrs. G. Secord. . . . .	86 12	
H. W. Tarbell. . . . .	572 00	
		<hr/>
		1,032 70

## Stationery, Printing, Etc.

To Appropriation for Supply. . . . .	5 25	
Geo. E. Hutchins. . . . .	1 25	
Thomas H. Lawler. . . . .	10 20	
Lawler Printing Co. . . . .	7 45	
G. C. Prince & Son. . . . .	10 00	
Sampson, Murdock & Co. . . . .	3 00	
F. A. M. Tobin. . . . .	11 50	
		<hr/>
		48 65

Amount carried forward. . . . . \$8,789 02



## CITY CEMETERIES, SUNDRIES—Continued.

Amount brought forward..... \$8,789 02

## Sundries :

To Wm. W. Clark, rent.....	140 00	
Anthony A Conway, Expense of Committee.....	1 00	
Wm. L. Lockhart, Pedestals ..	11 00	
Gookin Bros. Chair .....	1 70	
George E. Maker, Frame ....	1 50	
D. L. Page Co., Refreshments .	11 20	
Simpson & Rowland .....	2 75	
		169 15
		<u>\$8,958 17</u>

## COMMONS, SALARIES AND LABOR.

Appropriation.....	\$8,025 00	
Additional Appropriation.....	600 00	
		<u>\$8,625 00</u>

## EXPENDITURES.

Paid Avery Marshall, Superintendent	105 19	
John G. Jackson, Supt.....	1,094 81	
Albert Puffer, Asst. Supt.....	383 64	
Jeremiah Coughlan, Fort Hill Park.....	419 00	
Sundry Persons for Labor.....	6,582 04	
		8,584 68
Transferred to General Treasury...		40 32
Fund.....		<u>\$8,625 00</u>

## COMMONS, SUNDRIES.

Appropriation.....	\$2000 00	
Additional Appropriation .....	400 00	
	<hr/>	\$2,400 00
Receipts, Appropriation Extension		
Fort Hill Park .....	423 00	
Appropriation, Care of		
City Hall.....	39 50	
Appropriation, Purchase		
of Wood.....	203 63	
	<hr/>	666 13
		<hr/>
		\$3,066 13

## EXPENDITURES

## Stable Expenses :

To A. L. Butman.....	49 00	
Chas. Crevier .....	28 24	
Donovan Harness Co.....	60 70	
Ebert Harness Co.....	3 50	
F. B. Hill & Co. ....	92 55	
E. Newton.....	25 00	
H. J. O'Dowd.....	10 50	
C. H. Ward.....	60 50	
A. L. Warren.....	10 10	
O. J. Carney.....	202 75	
M. J. Haggerty. ....	17 25	
A. D. Mitten.....	6.90	
	<hr/>	567 49

## Hay, Grain, Boarding Horses, Etc. :

To W. P. Foye Co.....	60 27	
Thos. Garvey,.....	9 00	
C. H. Hanson & Co.....	35 00	
Frank M. Merrill .....	190 00	
Joseph Mullin.....	55 00	
T. J. McDonald .....	129 77	
P. F. McNulty,.....	50 15	
H. E. Noyes & Son.....	272 94	
W. A. Sherman .....	7 50	
Vigeant, Dumas & Co.....	37 86	
O. D. Wilder .....	126 47	
	<hr/>	973 96

Amount carried forward .....

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\$1,541 45

## COMMONS, SUNDRIES—Continued.

Amount brought forward.....		\$1,541 45
Lumber, Hardware, Etc.		
To Chas. E. Howe & Co.....	12 48	
Pratt & Forrest .....	2 69	
Wm. H. Wiggin .....	102 34	
Adams Hardware & Paint Co..	2 85	
W. T. S. Bartlett.....	5 67	
Boutwell Bros.....	08	
John Callaghan.....	2 70	
E. P. Flanders & Co.....	52 97	
C. N. Rice & Co.....	2 95	
Thompson Hardware Co.....	15 24	
		<hr/>
		\$199 97
Pipe, Fittings, Labor, Etc.		
To Chas. C. Atwood.....	1 25	
Carroll Bros.....	1 50	
J. D. Danahy.....	46 15	
Doherty Bros.....	55 00	
Charles E. Gee.....	10 80	
Chas. H. Hill.....	1 44	
Lowell Burr Cylinder Works..	25 50	
Jere Ryan .....	10 00	
Welch Bros.....	41 46	
		<hr/>
		193 10
Plants, Shrubs, Loam, Etc.:		
To A. C. Cook .....	31 00	
E. P. Flanders.....	54 05	
Mrs. F. T. Greenhalge .....	3 00	
John Sullivan.....	10 95	
Whittet & Co.....	317 86	
		<hr/>
		416 86
Painters Supplies:		
To Adams Hardware & Paint Co.	3 39	
Sylvester Bean.....	1 45	
C. B. Coburn & Co.....	16 82	
Easton Blacking Co.....	2 60	
G. Gilday .....	16 37	
A. L. Kittredge & Co.....	20 27	
Thompson Hardware Co.....	17 06	
		<hr/>
		77 96
Amount carried forward.....		<hr/>
		\$2,429 34

## COMMONS, SUNDRIES—Continued.

Amount brought forward. . . . . \$2,429 34

## Stationery, Printing, Etc.:

To Buckland Printing Co . . . . .	11 75	
Harry C. Kittredge . . . . .	1 50	
Laura M. Marshall . . . . .	4 50	
G. C. Prince & Son . . . . .	1 00	
Sampson, Murdock & Co . . . . .	3 00	
C. E. Robinson . . . . .	21 00	
		<hr/>
		42 75

## Carriage Hire, Teaming, Etc

To Appropriation for Water Works . . . . .	1 80	
C. H. Hanson & Co . . . . .	13 00	
Manchester & Concord Ex. Co. . . . .	15	
John J. Mullaney . . . . .	9 00	
Frank A. Orcutt . . . . .	7 00	
Fred S. Osterhout . . . . .	11 50	
		<hr/>
		42 45

## Sundries:

To Appropriation for Water Works for Water . . . . .	11 70	
Ernest Audette, repairing rubber boots . . . . .	1 25	
Owen Carney, horse . . . . .	185 00	
Edward Cawley, coal . . . . .	1 95	
John Cross, repairing flags . . . . .	4 00	
C. H. Hanson & Co . . . . .	45 00	
W. E. Livingston Co., cement . . . . .	6 20	
Lowell Electric Co . . . . .	16 17	
Lowell Gas Light Co . . . . .	72	
F. E. McNabb, medicine . . . . .	1 25	
A. G. Pollard & Co., burlap . . . . .	1 50	
Geo. H. Wood . . . . .	2 90	
F. A. Tuttle, fuse . . . . .	35	
McLaughlin & Co., refreshments . . . . .	12 00	
		<hr/>
		289 99
		<hr/>
		2,804 53

Transferred to General Treasury  
Fund . . . . .

261 60

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\$3,066 13

## IMPROVEMENT OF FORT HILL PARK EXTENSION.

Appropriation.....		<u>\$5,000 00</u>
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## EXPENDITURES.

To Sundry persons for labor.....	4,139 90	
Appropriation for Engineering for services of assistants...	107 37	
	<hr/>	4,247 27

Lumber, Hardware, Pipe, Etc. :

To Pratt & Forrest.....	7 76	
Appropriation for Sewer Main- tenance.....	4 02	
Edward Cawley.....	96 90	
J. D. Danahy .....	39 35	
E. P. Flanders & Co.....	20 33	
Thompson Hardware Co.....	2 85	
W. E. Livingston Co.....	8 40	
	<hr/>	179 61

Sundries :

To Appropriation for Commons sundries .....	423 00	
O. J. Carney, sharpening tools.	32 95	
C. Crevier, sharpening tools...	14 00	
Norman Leith, sharpening tools	15 20	
F. A. Tuttle, fuse.....	40	
O. D. Wilder .....	4 00	
Charles Hill.....	1 35	
George E. Hutchins.....	37 60	
	<hr/>	528 50
		<hr/>
		4,955 38

Transferred to General Treasury Fund.....		44 62
		<hr/>
		\$5,000 00
		<hr/>

## ELECTIONS.

Appropriation.....	6,300 00	
Additional Appropriation .....	192 56	
		<hr/>
		\$6,492 56
		<hr/>

## ELECTIONS—Continued.

## EXPENDITURES.

To Sundry Persons for services as Election Officers.....	\$3,787 00	
Appropriations f o r School Houses, Labor.....	1,117 79	
	<hr/>	4,904 79
Clerks :		
To Charles F. Bradley.....	4 62	
Edwards Cheney.....	137 50	
Harry P. Farley.....	7 50	
Waldo F. Miles .....	31 25	
Arthur F. Salmon .....	10 00	
	<hr/>	190 87
Hardware, Paints, Etc. :		
To Appropriation, School Houses Sundries.....	11 80	
W. A. Mack & Co.....	63 00	
H. B. Shattuck & Son.....	52 50	
Adams Hardware & Paint Co..	4 50	
Owen E. Brennan.....	1 12	
C. B. Coburn & Co.....	23 52	
	<hr/>	156 44
Ballot Boxes and Repairing :		
To Commonwealth of Mass.....	100 00	
Chas. Littlefield & Co .....	24 60	
O'Donnell & Gilbride Co.....	2 00	
Robert S. Robson.....	8 70	
	<hr/>	135 30
Fuel and Rent :		
To Appropriation for Purchase of Wood....	29 00	
Edward Cawley.....	13 85	
P. H. Britton.....	20 00	
H. F. Felton, Agt .....	25 00	
C F. Keyes.....	40 00	
Percy Parker.....	75 00	
	<hr/>	202 85
Amount carried forward.....		\$5,590 25

## ELECTIONS—Continued.

Amount brought forward..... \$5,590 25

## Stationery, Printing, Etc. :

To Buckland Printing Co .....	12 00	
Courier-Citizen Co.....	164 91	
Daily News Co .....	36 40	
Dumas & Co. ....	13 00	
G. P. Dadman.....	10 00	
Thos. H. Lawler .....	30 50	
Lawler Printing Co .....	4 50	
Libby Printing Co .....	1 75	
Lowell Bill Posting Co.....	11 00	
Lowell Daily Mail .....	11 75	
Lowell Sun.....	12 00	
Lepine & Co.....	10 20	
G. C. Prince & Son.....	9 30	
Sunday Telegram.....	15 30	
F. A. M. Tobin.....	30 50	
Union Printing Co.....	325 25	
		<hr/>
		698 36

## Care of Ward Rooms :

To J. L. Boughton.....	4 75	
Oscar Brown.....	11 25	
James Clark.....	6 50	
Numa Delisle.....	2 00	
Samuel Fleming.....	10 50	
John H. Hallett.....	11 25	
Thos. F. Hannafin.....	5 50	
James Gove.....	5 00	
E. E. Harder.....	1 00	
Timothy Harrington .....	6 00	
Omer Smith.....	1 00	
W. H. Stafford.....	8 50	
Robert J. Wotton.....	1 00	
		<hr/>
		74 25

## Carriage Hire, Teaming, Etc.

To Conway Transfer Co .....	20 00	
D. P. Knowlton.....	12 00	
James McLean .....	6 00	
		<hr/>
Amounts carried forward.....	38 00	<hr/>
		\$6,362 86



## ELECTIONS—Continued.

Amounts brought forward.....	\$38 00	\$6,362 86
S. W. Parker.....	16 00	
I. L. Prentiss & Co .....	14 00	
Michael Reynolds.....	10 00	
John Richards .....	10 00	
J. H. Sparks .....	11 70	
John Sullivan .....	10 00	
O. D. Wilder.....	20 00	
	<hr/>	129 70
		<hr/>
		\$6,492 56
		<hr/>

## STATE SUPERVISORS.

Balance undrawn Jan. 1, 1902.....	80 00	
Additional Appropriation.....	864 00	
	<hr/>	944 00
Paid Sundry Persons for Services :	800 00	800 00
	<hr/>	<hr/>
Balance undrawn Dec. 31, 1902....		\$144 00
		<hr/>

## ENGINEERING.

Appropriation.....	7,500 00	
Received from Sundry Department for Engineering.....	9,351 64	
	<hr/>	\$16,851 64
		<hr/>

## EXPENDITURES.

To George Bowers, Engineer.....	2,700 00	
Sundry persons, Assistants....	12,618 31	
	<hr/>	15,318 31
Sundries :		
To Appropriation for Streets, Sundries, horse.....	200 00	
Arthur Bartlett, car fares.....	7 85	
George Bowers, sundry expenses	37 00	
	<hr/>	<hr/>
Amounts carried forward.....	\$244 85	\$15,318 31

## ENGINEERING—Continued

Amounts brought forward .....	\$244 85	\$15,318 31
Baker Printing Co .....	3 30	
American Express Co., trans- portation .....	95	
Boston & Maine R. R., tickets.	20 25	
Carter's Ink Co.....	38	
C. B. Coburn & Co., sundries..	2 10	
George L. Cady & Sons, repairs	1 00	
Courier-Citizen Co., books, etc.	23 50	
Donovan Harness Co.. harness and repairs.....	58 50	
Boston & Lowell Des. Ex. Co..	15	
Dumas & Co.....	9 25	
Engineering Record.....	5 00	
Mrs. D. P. Farmer, rent of stable.....	12 00	
E. P. Flanders & Co , hardware	45 75	
Hooper, Lewis & Co., books ..	7 50	
C. H. Hanson & Co., .....	35 00	
F. B. Hill & Co., repairing carriage .....	5 00	
J. S. F. Huddleston, ther- mometers .....	5 00	
A. L. Kittredge & Co., paper, etc	31 00	
Thos. H. Lawler, seeds.....	15	
Lawler Printing Co.....	3 00	
Library Bureau, cards etc.....	11 25	
J. S. Mason Co.....	41 75	
N. E. Tel. & Tel. Co .....	32 78	
Mdsx Typewriting Co.....	6 00	
Municipal Journal & Engineer	3 00	
Norris Livery Co.....	2 00	
Manchester & Concord Ex.....	15	
Municipal Engineering Co.....	2 00	
G. C. Prince & Son, stationery.	89 17	
Marshall & Crosby, book-case.	87 00	
H. J. O'Dowd & Co., blankets etc. ....	30 50	
Sampson, Murdock & Co., directories.....	13 20	
Sawyer Carriage Co., repairs...	22 10	
Amounts carried forward.....	\$854 53	\$15,318 31

## ENGINEERING—Continued.

Amounts brought forward.....	\$854 53	\$15,318 31
J. H. Sparks, carriage hire....	7 00	
Talbot Dyewood & Chemical Co	5 80	
Engineering Magazine.....	3 00	
Thompson Hardware Co.....	2 36	
F. A. M. Tobin, printing.....	22 25	
John Wiley & Sons.....	3 39	
F. W. Webb Mfg. Co., fittings	3 90	
N. M. Wood, typewriting		
supplies.....	3 75	
		<hr/> 905 98
		16,224 29
Transferred to General Treasury...		
Fund.....		627 35
		<hr/> \$16,851 64

## FIRE DEPARTMENT, SALARIES.

Appropriation.....	104,525 00	
Additional Appropriation .....	600 00	
		<hr/> \$105,125 00

## EXPENDITURES.

To Edward S. Hosmer, Chief		
Engineer.....	2,000 00	
James F. Norton, First Asst.		
Engineer.....	1500 00	
H. W. Burton, Asst. Engineer.	400 00	
Edward Meloy, Asst. Engineer.	400 00	
Geo. F. Salmon, Asst. Engineer	400 00	
		<hr/> 4,700 00
To Sundry persons, Call Firemen..	18,574 99	
Sundry persons, Permanent		
Firemen.....	81,301 39	
		<hr/> 99,876 38
		104,576 38
Transferred to General Treasury...		
Fund.....		548 62
		<hr/> \$105,125 00

## FIRE DEPARTMENT, SUNDRIES.

Appropriation.....	23,475 00	
		<u>\$23,475 00</u>

## EXPENDITURES.

## Fuel:

To Appropriation for Purchase of		
Wood.....	63 37	
John Brady .....	9 50	
J. J. Childs Coal Co.....	476 75	
C. H. Hanson & Co.....	1 50	
D. W. Horne & Son .....	207 17	
A. Jean.....	8 25	
W. A. Jepson.....	35 08	
Lowell Coal Co .....	2 80	
Moore & Bennett Coal Co.....	164 83	
John P. Quinn .....	3 00	
D. T. Sullivan .....	40 08	
		<u>1,012 33</u>

## Hay, Grain, Etc.

To Ame & Co.....	45 00	
W. P. Foye & Co.....	89 75	
David Gerow.....	204 00	
T. J. McDonald .....	2,303 07	
H. E. Noyes & Son.....	2,926 77	
Paul Vigeant & Co.....	248 95	
Vigeant, Dumas & Co .....	464 90	
		<u>6,282 44</u>

## Horses, Use of Horses, Shoeing:

To James Blakely.....	83 00	
E. P. Bryant .....	46 44	
B. G. Brown.....	10 00	
Cahill Bros.....	137 60	
John H. Collins .....	29 50	
Owen J. Carney .....	110 50	
C. Desmond.....	286 58	
O. K. Dexter.....	24 88	
J. J. Donnelly.....	156 35	
Q. A. Foster.....	15 90	
C. H. Hanson & Co.....	2,490 64	

Amounts carried forward.....	3,391 39	<u>\$7,294 77.</u>
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## FIRE DEPARTMENT, SUNDRIES—Continued.

Amounts brought forward.....	\$3,391 39	\$7,294 77
D. D. Libby.....	12 00	
M. V. B. Libby .....	61 45	
A. D. Mitten.....	359 05	
Geo. R. Morse .....	37 85	
C. H. McGraw.....	12 98	
F. G. McGregor.....	29 97	
P. F. McNulty.....	182 34	
Henry Reynolds.....	46 00	
S. A. Shattuck.....	49 06	
A. Parsons .....	127 80	
C. H. Ward.....	24 00	
J. T. Williamson.....	72 20	
	<hr/>	4,406 09
Carriages, Harnesses, Etc.:		
To Robert Barris .....	26 05	
T. M. Bolton.....	52 30	
E. P. Bryant .....	29 85	
A. L. Butman.. ..	56 20	
A. H. Cluer .....	37 25	
Donovan Harness Co.....	174 95	
Ebert Harness Co.....	38 50	
G. K. Hammon.....	9 00	
E. F. Hathaway.....	20 00	
F. B. Hill & Co.....	1,965 85	
J. H. Laporte.....	9 35	
D. W. Parker.....	15 15	
C. M. Perkins & Co.....	5 00	
Sawyer Carriage Co.....	746 57	
D. C. Stanley .....	4 75	
J. H. Swett.....	145 77	
G. H. Taylor . . .	2 35	
H. W. Tinker.....	1 30	
	<hr/>	3,340 19
Water, Lighting, Power and Telephone:		
To Appropriation for Water Works	386 75	
Lowell Gas Light Co.....	1,217 08	
Lowell Electric Light Corp....	265 25	
N. E. Tel. & Tel. Co.....	254 77	
	<hr/>	2,123 85
Amount carried forward .....		\$17,164 90

## FIRE DEPARTMENT, SUNDRIES—Continued.

Amount brought forward..... \$17,164 90

## Lumber, Hardware, Etc. :

To Pratt & Forrest.....	8 65	
Wm. H. Wiggin.....	5 85	
Adams Hardware & Paint Co..	7 05	
H. R. Barker Mfg. Co .....	53 26	
Boston Engineers Supply Co...	63 00	
Boutwell Bros.....	3 23	
Owen E. Brennan .....	2 23	
F. W. Cheney & Co.....	8 45	
E. P. Flanders & Co.....	44 58	
H. B. Shattuck & Son.....	8 25	
Thompson Hardware Co.....	19 84	
		<hr/>
		224 39

## Hose, Fittings, Pipe, Etc. :

To American Fire Engine Co....	54 75	
H. R. Barker Mfg. Co.....	68 23	
Boston Woven Hose Co.....	7 00	
Cornelius Callahan .....	1,472 95	
Cornelius Callahan Co .....	6 25	
Coates, Clipper Mfg. Co.....	50 00	
John J. Doherty .....	21 60	
Farrell & Conaton .....	2 00	
H. L. Gonzales.....	2 50	
Geo. E. Hutchins.....	58 30	
A. I. Laughton.....	1 50	
W. A. Mack & Co.....	45 35	
A. F. Nichols.....	21 66	
C. M. Perkins & Co .....	1 00	
J. W. Stewart.....	7 92	
The Challenge Tube Cleaner Co	2 00	
Union Brass Foundry.....	22 40	
Welch Bros.....	130 67	
H. H. Wilder & Co.....	22 90	
D. H. Wilson & Co.....	316 65	
		<hr/>
		2,315 63

## Painters and Electricians Supplies :

To Adams Hardware & Paint Co..	9 44
W. T. S. Bartlett.....	9 00

Amounts carried forward .....	\$18 44	\$19,704 92
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## FIRE DEPARTMENT, SUNDRIES—Continued.

Amounts brought forward.....	\$18 44	\$19,704 92
M. Bellfontaine.....	13 80	
Boston Electric Co.....	7 10	
C. B. Coburn & Co.....	372 33	
Crystal Oil Co.....	10 50	
W. E. Decrow.....	320 72	
Josiah Gates & Son.....	3 52	
Gleaner Brush Co.....	6 58	
George E. Hutchins.....	2 17	
A. L. Kittrege & Co.....	23 02	
F. T. Lord Polish Co.....	24 00	
C. F. Morse.....	114 05	
Tucke & Parker.....	38 21	
		954 44

## Stable Supplies :

To A. W. Baker.....	62 00	
F. M. Bill & Co.....	137 80	
Owen E. Brennan.....	20	
C. E. Carter.....	22 75	
Cornelius Callahan Co.....	186 68	
C. B. Coburn & Co.....	39 20	
Walter Coburn & Co.....	15 00	
P. Dempsey & Co.....	8 25	
Donovan Harness Co.....	86 25	
Greenwood Bros.....	1 00	
C. H. Hanson & Co.....	16 80	
R. J. Lang & Co.....	1 25	
John G. Lesure.....	31 50	
Lowell Rendering Co.....	40 80	
O'Brien Bros.....	50	
Simpson & Rowland.....	10 70	
Talbot Dyewood & Chemical Co	33 55	
Henry F. Whiting.....	56	
		694 79

## Furniture, Bedding, Etc. :

To J. J. Doherty & Co.....	35 76	
Gookin Bros.....	64 90	
E. Hapgood & Son.....	22 85	
Amounts carried forward.....	\$123 51	\$21,354 15



## FIRE DEPARTMENT, SUNDRES—Continued.

Amounts brought forward..... \$123 51    \$ 21,354 15

C. H. Hanson & Co .....	263 07
Middlesex Co .....	147 88
John Martin.....	3 60
O'Donnell & Gilbride Co.....	170 25
H. J. O'Dowd.....	20 00
A. G. Pollard & Co.....	68 64
J. E. Shanley & Co.....	23 84

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\$826 79

## Veterinaries :

To A. W. Baker.....	4 00
A. C. Daniels .....	16 00
Charles E. Munn.....	18 00
C. A. Hamblett .....	15 00
J. H. Sparks.....	71 50
Jesse A. Viles .....	10 50

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135 00

## Transportation :

To American Express Co.....	4 20
Boston & Maine R. R. ....	20 86
Boston & Lowell Des. Ex. Co.	35
Manchester & Concord Ex. Co.	55
New York & Boston Des. Co..	10 84
New York, New Haven & Hartford R. R. ....	7 66

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44 46

## Sundries :

To Chas G. Braxmar, insignia....	21 50
Chas. E. Berry.....	6 36
Cornelius Callahan, ladders etc.	9 00
Cornelius Callahan Co., ladder.	65 00
John Cross, bags .....	7 00
H. S. Corey, respirators.....	72 00
E. S. Hosmer, expenses.....	40 90
Fred W. Jenness, pasturing...	70 00
A. Lawrence, repairing clocks	11 50
Lowell Steam Carpets Cleaning Works... ..	9 18
H. L. Mills, sharpening tools .	54

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Amount carried forward..... \$312 98    \$22,354 40

## FIRE DEPARTMENT, SUPPLIES—Continued.

Amounts brought forward . . . . .	\$312 98	22,354 40
R. T. Mower, repairing clocks.	2 00	
Harry Raynes, repairing badges	75	
S. C. Shirley Est., rent . . . . .	6 00	
Simpson & Rowland, matches.	5 50	
J. E. Shanley & Co., towels...	6 00	
Scriptures Laundry . . . . .	117 59	
Merrimac House, refreshments	9 00	
J. H. Sparks, carriage hire . . . .	9 00	
Thompson Hardware Co , cords etc . . . . .	4 79	
David W. Thissell, damages...	28 00	
P. S. Webster, rent . . . . .	4 50	
	<hr/>	506 11
Stationery, Printing, Etc.		
To Butterfield Printing Co . . . . .	3 75	
Courier-Citizen Co . . . . .	20 00	
Lawler Printing Co. . . . .	3 00	
Thos. H. Lawler . . . . .	1 00	
G. C. Prince & Son . . . . .	7 65	
Sampson, Murdock & Co . . . . .	3 00	
F. A. M. Tobin . . . . .	74 85	
	<hr/>	113 25
		<hr/>
		22,973 76
Transferred to General Treasury...		
Fund . . . . .		501 24
		<hr/>
		\$23,475 00
		<hr/>

## FIRE DEPARTMENT, UNDERGROUND WIRES.

Balance Jan. 1, 1902 . . . . .	419 83	
	<hr/>	\$419 83
		<hr/>

## FIRE DEPARTMENT, UNDERGROUND WIRES—Continued.

## EXPENDITURES.

To Sundry Persons for Labor.....	12 00	
W. E. Decrow .....	192 39	
Wm. H. Hope, & Co .....	21 49	
Pettingell, Andrews Co.....	130 00	
	<hr/>	355 88
Balance undrawn Dec. 31, 1902....		63 95
		<hr/>
		<u>\$419 83</u>

## HEALTH OFFICE, SALARIES.

Appropriation.....	8,831 00	
	<hr/>	\$8,831 00
		<hr/>

## EXPENDITURES.

Board of Health :		
To Guy Holbrook.....	500 00	
John H. McGuinness... ..	500 00	
John J. O'Connor,.....	479 83	
W. B. Jackson .....	20 17	
	<hr/>	1,500 00
Agent :		
To Horace H. Knapp.....	1,825 00	
	<hr/>	1,825 00
Clerk :		
To Elizabeth M. Rafter.....	704 25	
	<hr/>	704 25
Inspectors :		
To F. A. Bates .....	994 00	
W. H. Connors .....	1,016 25	
Stephen Garrity.....	1,095 50	
F. J. O'Hare.....	1,016 25	4,122 00
	<hr/>	<hr/>
Amount carried forward .....		\$8,151 25

Amount brought forward..... \$8,151 25

### HEALTH OFFICE, SALARIES—Continued.

#### Bacteriologist :

To Thomas B. Smith.....	600 00	
		600 00

#### Labor :

To John Dolan.....	22 75	
Lena Cote.....	14 00	
		36 75

8,788 00

Transferred to General Treasury  
Fund.....

43 00

\$8,831 00

### HEALTH OFFICE SUNDRIES.

Appropriation..... \$3,000 00

Received from N. E. Tel. & Tel. Co..... 11 46

\$3,011 46

### EXPENDITURES.

#### Professional Services :

To W. A. Johnson .....	602 50	
E. G. Livingston.....	1 00	
Lowell Hospital Association ..	737 42	
Hugh Muldoon .....	7 50	
O. P. Porter .....	2 00	
St. Johns Hospital.....	21 43	
T. B. Smith.....	508 00	
		\$1,879 85

#### Printing, Stationery, Etc.

To Baker Printing Co.....	28 05	
Buckland Printing Co .....	12 25	
Butterfield Ptinting Co.....	26 30	
Carter's Ink Co.....	1 14	
Courier-Citizen Co.....	10 75	
		\$78 49
		\$1,879 85

## HEALTH OFFICE, SUNDRIES—Continued.

Amounts brought forward.....	\$78 49	\$1,879 85
Dumas & Co.....	17 25	
Thos. H. Lawler.....	46 10	
Lawler Printing Co.....	34 25	
Libby Printing Co.....	40 20	
Lyon Platinum Pen Co. ....	4 50	
Municipal Journal & Register Co	6 00	
Municipal Engineering Co.....	2 00	
G. C. Prince & Son.....	69 28	
Sampson, Murdock & Co.....	6 00	
F. A. M. Tobin.....	71 30	
J. Wiley & Sons.....	1 50	
Union Printing Co.....	72 00	
		448 87
Laboratory Supplies :		
To Amyl-kijo Chemical Co.....	8 75	
Otis Allen & Son.....	15 00	
H. M. Alexander & Co.....	15 00	
B. Blakiston Son Co.....	2 00	
Carleton & Hovey.....	32 15	
C. B. Coburn & Co.....	7 80	
F. A. Davis & Co.....	4 00	
P. Dempsey & Co.....	31 80	
Eimer & Amend.....	60 44	
Ellingwood & Co.....	9 49	
J. L. Fairbanks & Co.....	3 78	
Johnson & Johnson.....	72 00	
R. J. Lang & Co.....	2 00	
J. V. Mulcahey.....	10 50	
W. A. Mack & Co.....	1 80	
W. H. Pearson.....	22 50	
Talbot Dyewood & Chemical Co	21 96	
Whitall, Tatum & Co.....	20 63	
		341 60
Piping, Plumbing, Etc. :		
To E. P. Flanders & Co.....	1 50	
Farrell & Conaton.....	17 68	
Peter Gray.....	5 00	
H. H. Wilder & Co.....	6 62	
		30 80
Amount carried forward.....		\$2,701 12

## HEALTH OFFICE, SUNDRIES—Continued.

Amount brought forward.....		\$2,701 12
N. E. Tel. & Tel. Co.....	106 24	
	<hr/>	106 24
Transportation :		
American Express Co.....	14 60	
B. & M. Railroad Co.....	20 00	
Manchester & Concord Ex. Co.	45	
N. Y. & B. Des. Co.....	3 10	
	<hr/>	38 15
Sundries :		
To Appropriation f o r School		
Houses, sundries.....	5 86	
Appropriation f o r School		
Houses, labor.....	17 58	
F. A. Bates, sundry expenses ..	7 93	
P. Brady, re-seating chair.....	75	
Commonwealth of Mass. copy		
of Revised Laws.....	6 00	
Peter Gray, sundries.....	15 60	
Mrs. Donnelly, cleaning.....	22 00	
Geo. E. Hutchins, fares.....	84	
Keefe Bros.....	50	
H. H. Knapp, sundry expenses	12 05	
Mass. Association, Boards of		
Health.....	1 50	
John McCullough, Bon Ami..	1 20	
Dennis J. Pendergast, services.	15 00	
	<hr/>	106 81
		<hr/>
		2,952 32
Transferred to General Treasury...		
Fund .....		59 14
		<hr/>
		\$3,011 46
		<hr/>

## HEALTH, YARD LABOR.

Appropriation.....	26,800 00	
Additional Appropriation.....	840 38	
	<hr/>	\$27,640 38
		<hr/>

## HEALTH, YARD LABOR—Continued.

## EXPENDITURES.

Paid Sundry persons as per pay-rolls	27,640 38	
	<hr/>	27,640 38

## HEALTH, YARD SUNDRIES.

Appropriation.....	4,500 00	
Additional Appropriation.....	1,963 29	
	<hr/>	6,463 29
Received from Appropriation for "Small Pox".....		143 00
		<hr/>
		<u>\$6,606 29</u>

## EXPENDITURES.

To Appropriation for Water Works, water.....	86 97	86 97
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## Fuel:

To Appropriation for Purchase of		
Wood .....	9 75	
J. J. Childs, Coal Co .....	30 33	
Connors Bros .....	32 50	
Daniel Gage .....	6 64	
D. W. Horne & Son .....	36 75	
W. E. Livingston Co .....	6 42	
Joseph Mullin .....	58 25	
D. T. Sullivan .....	25 92	
	<hr/>	206 56

## Hay, Grain, Etc.

To Ame & Co .....	11 25	
Daniel Gage .....	8 00	
W. E. Livingston Co .....	204 20	
T. J. McDonald .....	460 02	
H. E. Noyes & Son .....	2,235 17	
J. B. Sabre .....	47 35	
Paul Vigeant & Co .....	111 97	
O. D. Wilder .....	548 55	
	<hr/>	3,626 51

Amount carried forward.....		<u>\$3,920 04</u>
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## HEALTH YARD, SUNDRIES—Continued.

Amount brought forward.....		\$3,920 04
Lighting :		
To Lowell Electric Light Corp....	13 14	
Lowell Gas Light Co.....	50 31	
	<hr/>	63 45
Horses, Carriages, Harnesses, Etc .		
To T. M. Bolton.....	123 17	
Donovan Harness Co.....	242 75	
F. B. Hill & Co.....	32 30	
C. H. Hanson & Co.....	35 00	
L. S. Kimball.....	3 75	
H. J. O'Dowd.....	145 00	
W. H. Pearson.....	80 00	
Henry Reynolds.....	1 50	
Sawyer Carriage Co.....	29 00	
	<hr/>	692 47
Lumber :		
To Appropriation for Public Build-		
dings, sundries.....	2 30	
Appropriation for Public Build-		
ings, labor.....	7 00	
Burnham & Davis.....	10 92	
C. E. Howe & Co.....	108 77	
Pratt & Forrest.....	72 43	
	<hr/>	201 42
Hardware, Pipe, Fittings, Etc. :		
To Appropriation for Sewer Main-		
tenance.....	16 72	
Boutwell Bros.....	472 69	
Owen E. Brennan.....	88	
E. P. Flanders & Co.,.....	39 09	
Farrell & Conaton.....	11 66	
Globe & Amesbury File Works	4 50	
Henry C. Girard.....	70	
G. E. Hutchins.....	11 50	
W. A. Mack & Co.....	4 37	
Pevey Bros.....	1 10	
H. B. Shattuck & Son.....	1 30	
	<hr/>	
Amounts carried forward.....	\$564 51	\$4,877 38

## HEALTH YARD, SUNDRIES—Continued.

Amounts brought forward.....	\$ 564 51	\$ 4,877 38
Thompson Hardware Co.. . . . .	9 38	
Welch Bros..... . . . .	1 00	
C. Zimmer..... . . . .	3 00	
	<hr/>	577 89
Painter's Supplies :		
To E. W. Brown..... . . . .	2 50	
J. C. Bennett..... . . . .	27 48	
Sylvester Bean,..... . . . .	14 41	
C. B. Coburn & Co..... . . . .	17 15	
Eastern Blacking Co..... . . . .	5 20	
Geo. E. Hutchins..... . . . .	1 33	
	<hr/>	68 07
Stable Supplies and Veterinary :		
To Adams Hardware & Paint Co.	50	
C. B. Coburn & Co..... . . . .	12 00	
F. K. Hubbard..... . . . .	4 00	
Keefe Bros..... . . . .	6 25	
F. E. McNabb..... . . . .	85	
C. A. Hamblett..... . . . .	3 00	
A. W. Baker..... . . . .	20 00	
U. S. Richards..... . . . .	4 00	
W. A. Sherman..... . . . .	39 00	
S. C. Mussey, laundering.....	5 12	
	<hr/>	94 72
To N. E. Tel. & Tel. Co.....		33 75
Horses, Teaming, Carriage Hire, Etc. :		
To Thomas Connell..... . . . .	140 00	
P. P. Conners..... . . . .	4 00	
Conners Bros..... . . . .	203 25	
C. H. Hanson & Co..... . . . .	356 00	
Morse Coach Co..... . . . .	2 00	
J. H. Sparks..... . . . .	6 00	
N. Y., N. H. & H. Railroad..	35	711 60
	<hr/>	<hr/>
Amount carried forward .....		\$6,363 41

## HEALTH YARD, SUNDRIES—Continued.

Amount brought forward.....		\$6,363 41
Sundries :		
To John Cross, canvas covers.....	22 00	
Thomas H. Lawler, book.....	50	
Geo. E. Hutchins, boots.....	3 20	
J. Murkland & Son, leather...	5 63	
Queen's Run Fire Brick Co.,...		
brick.....	19 55	
J. H. Walker, repairing gar-		
bage plant.....	100 00	
Connors Bros., rent of land....	75 00	
P. J. Riley & Co.....	3 20	
Simpson & Rowland, matches,		
ete.....	6 55	
G. C. Prince & Son, paper....	6 00	
J. W. Bennett & Co., tar paper	1 25	
		242 88
		<u>\$6,606 29</u>

## HEALTH, SMALL POX.

Balance from 1901.....		117 67
Appropriation.....	\$2,500 00	
Additional Appropriation.....	3,999 53	
		6,499 53
Received of J. P. Quinn, overdraft.		9 00
		<u>\$6,626 20</u>

## EXPENDITURES.

To Sundry persons for labor.....	1,403 45	
		1,403 45
Physicians, Attendants, Etc. :		
To Appropriation for Health		
Sundries.....	143 00	
		<u>\$143 00</u>
Amounts carried forward.....	\$143 00	\$1,403 45

## HEALTH, SMALL POX—Continued.

Amounts brought forward .....	\$143 00	\$1,403 45
H. H. Knapp .....	23 50	
Joseph A. Lapierre .....	5 68	
E. G. Livingston .....	1,855 50	
G. O. Lavallee .....	118 95	
Alfred McKercher .....	2 86	
Frank McAvinue .....	517 90	
J. V. Mulcahy .....	1 50	
John White .....	33 75	
	<hr/>	2,702 64
Drugs, Medicines, Etc. :		
To Amyl-Kyo Chemical Co .....	9 50	
H. M. Alexander & Co .....	145 00	
G. C. Brock & Co .....	1 00	
C. E. Carter .....	293 18	
A. Couture .....	90	
C. B. Coburn & Co .....	70	
Carter & Sherburne .....	1 25	
Carleton & Hovey .....	25	
Delisle & Co .....	2 50	
P. Dempsey & Co .....	42 60	
Johnson & Johnson .....	24 00	
John Lennon .....	3 20	
H. K. Mulford Co .....	5 00	
Talbot Dyewood & Chemical Co .....	81 25	
Ellingwood & Co .....	41 00	
	<hr/>	651 33
Fuel :		
To Edward Cawley .....	53 02	
Connors Bros .....	50 50	
Moore & Bennett Coal Co .....	17 50	
John P. Quinn .....	29 00	
D. T. Sullivan .....	22 50	
	<hr/>	172 52
Printing, Advertising, Etc.		
To Courier-Citizen Co .....	7 20	
Daily News Co .....	7 80	
	<hr/>	
Amounts carried forward .....	\$15 00	\$ 4,929 94

## HEALTH, SMALL POX—Continued.

Amounts brought forward.....	\$ 15 00	\$4,929 94
Lepine & Co.....	5 50	
Lowell Daily Mail.....	6 00	
Lowell Sun.....	7 50	
Sunday Telegram.....	2 08	
F. A. M. Tobin.....	3 90	
		39 98
Provisions, Etc.		
To J. M. Beaulieu.....	79 52	
F. A. Bates.....	61 98	
J. S. Brooks.....	156 44	
F. M. Bill & Co.....	4 15	
J. Callaghan.....	4 93	
D. J. Donovan.....	17 04	
F. L. Emerson.....	74 93	
David Gerow.....	18	
D. J. Hart.....	31 60	
LaPorte & Co.....	21 08	
Merrimack Clothing Co.....	22 50	
Geo. E. Mongeau.....	15 00	
O'Donnell & Gilbride Co.....	270 51	
A. G. Pollard & Co.....	4 83	
Stanley & Co.....	2 00	
J. W. Tarte.....	69 80	
Tousignant Bros.....	15 36	
Appropriation for Paupers		
Alms-house.....	526 34	
Appropriation for School Houses		
Sundries.....	8 36	
Thomas F. Fay.....	27 00	
		1,413 55
Sundries :		
To Appropriation for School Houses		
Sundries.....	20 39	
Donovan Harness Co., chamois	1 50	
Farrell & Conaton, plumbing..	9 39	
Edward Gervais, bedding.....	15 00	
John Callaghan, piping.....	76	
Amounts carried forward.....	\$47 04	\$6,383 47

## HEALTH, SMALL POX—Continued.

Amounts brought forward.....	\$47 04	\$6,383 47
W. A. Mack & Co., fumigating outfit .....	10 00	
H. H. Knapp, sundry expenses .....	7 60	
St. Patricks Cemetery .....	50 00	
Thompson Hardware Co., hardware.....	7 50	
	<hr/>	122 14
Rent :		
To Burnham & Davis.....	7 75	
W. E. Dodge .....	7 50	
J. J. Guimette... ..	21 00	
William Dupeau.....	18 34	
H. V. Drury.....	16 00	
Geo. W. Harris .....	4 00	
L. A. Folsom, Agent.....	10 50	
Est. J. M. G. Parker.....	3 50	
Joseph Thibeault .....	13 00	
Vincent Bros.....	11 00	
E D. Peneault.....	8 00	
	<hr/>	120 59
		<hr/>
		\$6,626 20
		<hr/>
		<hr/>

HEATING CITY HALL AND MEMORIAL BUILDING,  
LABOR.

Appropriation .....	\$3,000 00	
	<hr/>	\$3,000 00
		<hr/>
EXPENDITURES.		
To Sundry persons for labor.....	2,943 00	
	<hr/>	2,943 00
Transferred to General Treasury...		
Fund.....		57 00
		<hr/>
		\$3,000 00
		<hr/>
		<hr/>

# HEATING CITY HALL AND MEMORIAL BUILDING, FUEL.

Appropriation.....	\$2,500 00	
	<hr/>	\$2,500 00
		<hr/>

## EXPENDITURES.

To Appropriation for Water Works :	43 89	
B. & M. Railroad.....	50	
Edward Cawley .....	466 86	
J. J. Child Coal Co.....	295 66	
P. P. Conners & Co.....	3 38	
D. W. Horne & Son.....	248 15	
C. H. Hanson & Co .....	9 00	
W. A. Jepson.....	57 97	
Moore & Bennett Coal Co.....	685 55	
Joseph Mullin.....	142 10	
Sturtevant Coal Co.....	145 85	
D. T. Sullivan .....	1 24	
	<hr/>	2,100 15
Transferred to General Treasury Fund.....		399 85
		<hr/>
		\$2,500 00
		<hr/>

# HEATING CITY HALL AND MEMORIAL BUILDING, SUNDRIES.

Appropriation.....	\$600 00	
Additional Appropriation.....	190 00	
	<hr/>	790 00
		<hr/>

## EXPENDITURES.

Repairs on Heating Apparatus :		
To J. D. Danahy .....	106 19	
F. B. Hill & Co.....	2 50	
W. A. Mack & Co.....	37 00	
Lukon Mfg. Co .....	13 13	
Scannell & Wholey .....	72 42	
Welch Bros.....	427 68	
	<hr/>	
Amount carried forward.....		\$658 92



HEATING CITY HALL AND MEMORIAL BUILDING,  
SUNDRIES—Continued.

Amount brought forward...		\$658 92
Oil, Waste, Etc :		
To Boston Engineers Supply Co..	51 51	
C. B. Coburn & Co .....	13 54	
F. W. Cheney & Co.....	5 75	
Walter Coburn.....	4 25	
E. P. Flanders & Co .....	6 45	
Keefe Bros.....	48	
E. P. McCoy.....	10 45	
Thompson Hardware Co.....	3 10	
	<hr/>	95 53
Sundries :		
To W. E. Livingston Co., lime...	90	
Manchester & Concord Express	15	
C. W. Post, expressing.....	1 47	
D. T. Sullivan, teaming .....	11 42	
	<hr/>	\$13 94
		<hr/>
		768 39
Transferred to General Treasury		
Fund.....		21 61
		<hr/>
		\$790 00
		<hr/>

## HUNTINGTON HALL.

Appropriation.....	4,600 00	
Additional Appropriation.....	164 96	
	<hr/>	\$4,764 96
		<hr/>

## HUNTINGTON HALL—Continued.

## EXPENDITURES.

To Sundry persons for labor .....	1,984 96	
Appropriation for School Houses, labor .....	45 18	
	<hr/>	2,030 14
Appropriation for Water Works water .....	76 72	
	<hr/>	76 72
Fuel :		
To Appropriation for Purchase of Wood .....	9 75	
J. J. Child Coal Co .....	132 56	
P. P. Conners & Co. ....	3 37	
D. W. Horne & Son .....	5 46	
C. H. Hanson & Co. ....	9 25	
W. A. Jepson .....	11 92	
Moore & Bennett Coal Co. ....	603 44	
D. T. Sullivan .....	4 22	
	<hr/>	779 97
To Boston & Maine R. R., rent...	750 00	
	<hr/>	750 00
Lighting :		
To Lowell Gas Light Co. ....	23 58	
Lowell Electric Light Corp. ....	734 78	
	<hr/>	758 36
Hardware :		
To E. P. Flanders & Co. ....	90	
Henry C. Girard .....	65	
Keystone Steel Matting Co. ....	38 75	
H. M. Saunders & Co. ....	3 25	
Thompson Hardware Co. ....	1 00	
	<hr/>	44 55
Pipe, Fittings, Labor, Etc. :		
To Farrell & Conaton .....	51 35	
F. B. Hill & Co. ....	4 75	
Tucke & Parker .....	7 78	
Welch Bro .....	22 80	
	<hr/>	86 68
Amounts carried forward .....		\$4,526 42

## HUNTINGTON HALL—Continued.

Amount brought forward.....		\$4,526 42
Sundries :		
To T. J. Allen, kalsomining.....	5 00	
C. B. Coburn & Co., brushes, etc.....	38 98	
Gookin Bros., brushes.....	15 50	
India Alkali Works, soap.....	8 87	
Lowell Carpet Cleaning Works	2 60	
Lowell Polish Co., wax.....	1 50	
C. F. Morse, electrical supplies	116 10	
N. Y., N. H. & H. Railroad..	51	
O'Donnell & Gilbride Co., dry goods .....	7 75	
Torrent Veteran Fireman, damages.....	25 00	
Simpson & Rowland, sundries.	4 20	
Talbot Dyewood & Chemical Co ammonia.....	3 78	
F. A. M. Tobin, printing.....	2 75	
Zopher Co., sundries.....	6 00	
		<hr/> 238 54
		<hr/> \$4,764 96

## INCIDENTALS.

Appropriation.....	\$1,850 00	
Additional Appropriation .....	2,300 00	
		<hr/> 4,150 00

## EXPENDITURES.

Stationery, Printing, Etc. :		
To Baker Printing Co.....	10 50	
John Carter & Co.....	430 13	
Courier-Citizen Co.....	162 67	
Dumas & Co.....	230 83	
Daily News Co... ..	1 30	
Fort Hill Paper Co.....	7 00	
Lowell Sun.....	5 20	
Lowell Daily Mail .....	3 30	
Lawler Printing Co... ..	47 50	
		<hr/>
Amount carried forward .....	\$898 43	

## INCIDENTALS—Continued.

Amount brought forward.....	\$898 43	
Thomas H. Lawler .....	1 10	
Municipal Journal & Engineer.	3 00	
Municipal Engineering Co ....	2 00	
W. J. Meloy.....	125 00	
Middlesex Typewriting Co....	1 50	
G. C. Prince & Son.....	35 85	
Union Printing Co.....	203 66	
	<hr/>	1,270 54
Entertainment and Refreshments :		
To O. J. Carney.....	5 00	
F. A. Donohoe & Co .....	9 50	
J. P. Donohoe & Co.....	61 80	
J. A. Evans.....	8 44	
J. J. Gallagher.....	3 25	
Merrimack House.....	149 25	
McLaughlin & Co .....	43 00	
D. L. Page Co.....	26 47	
Richardson Hotel.....	5 00	
L. P. Turcotte .....	13 00	
Waverly Hotel.....	58 00	
	<hr/>	382 71
Expenses of Committees :		
To A. A. Conway .....	19 50	
Frank M. Dowling,.....	20 00	
Joseph E. Pattee.....	66 75	
Charles W. Bell .....	19 00	
	<hr/>	125 25
Sundry Expenses at Funeral of Mayor C. A. R. Dimon :		
To B. & M. Railroad, tickets.....	20 00	
Paul R. Burt, flowers.....	30 00	
J. B. Currier, services.....	167 00	
John J. Higgins, carriages ....	12 00	
C. H. Kimball & Co., badges ..	16 80	
Lowell Military Band, music ..	125 00	
Joseph E. Pattee, expenses of committee .....	88 20	
Whittet & Co., plants.....	58 00	
C. F. Young, decorations.....	225 00	
	<hr/>	742 00
Amount carried forward.....		\$2,520 50

## INCIDENTALS—Continued.

Amount brought forward.....		\$2,520 50
Reception to President Roosevelt :		
To Appropriation for School		
Houses, staging.....	71 61	
American Band, music.....	50 00	
H. L. Bailey & Co., gloves....	20 00	
Baker Printing Co., printing...	27 45	
F. B. Hill & Co., teaming ....	5 50	
C. H. Kimball & Co., badges..	120 80	
Lowell Mechanic Phalanx, firing		
salute.....	42 00	
Lowell Military Band, music...	50 00	
Morse Coach Co., carriages...	58 00	
G. H. McNabb, teaming.....	2 00	
G. C. Prince & Son, stamps....	10 00	
Geo. Whiteley, teaming .....	4 00	
O. D. Wilder, teaming .....	6 00	
C. F. Young & Co., decorations	100 00	
		<hr/> 567 36
To C. F. Young & Co., decorating		
City Hall & Memorial Building,		
July 4th .....	75 00	
		<hr/> 75 00
To C. A. Richardson, expert examination of		
Treasurers accounts .....	344 00	
		<hr/> 344 00
Carriage Hire :		
To J. A. Gregoire.....	3 00	
Morse Coach Co.....	12 00	
P. F. McNulty .....	4 00	
J. H. Sparks.....	73 60	
		<hr/> 92 60
Sundries :		
To American Express Co., .....	15	
E. N. Bishop & Son .....	78 75	
B. & M. Railroad, tickets.....	40 50	
C. A. R. Dimon, telegrams....	1 25	
		<hr/>
Amounts carried forward.....	\$120 65	599 46

## INCIDENTALS—Continued.

Amounts brought forward. ....	\$120 65	\$3,599 46
John J. Higgins, burial expenses of Michael McCue .....	30 00	
J. M. Fellows, stamps .....	7 00	
Alvin Lawrence, care of clock on High St. Church .....	50 00	
B. M. & M. E. Hutchins, type- writing .....	36 80	
Lowell Humane Society, refund of money paid for use of Huntington Hall .....	30 00	
Marshall & Crosby, balance on case for Memorial Hall ...	15 00	
McGauvran Bros .....	3 00	
Middlesex Safe Deposit and Trust Co., rent of box ....	50 00	
Middlesex Typewriting Co., typewriting .....	10 00	
N. E. Tel. & Tel. Co., service.	1 39	
Nettie E. Smith, rebate on taxes of 1896 & 1898. ....	9 58	
Andrew G. Stiles, recording ...	35	
H. M. Rogers .....	59 67	
A. F. Salmon, services .....	4 50	
U. S. Cartridge Co., transfer cases .....	1 80	
W. U. Telegraph Co., telegrams	1 32	
Peter A. Fay, refund of taxes on account of defective title	37 25	
William Welch, refund on taxes on account of defective title	58 68	
		526 99
		4,126 45
Transferred to General Treasury ...		
Fund .....		23 55
		\$4,150 00

## INSURANCE.

Appropriation.....	4,723 00	
	<hr/>	\$4,723 00
		<hr/>

## EXPENDITURES.

To W. D. Brown.....	111 28	
Frank M. Brogan.....	37 50	
Fred C. Church, Agt.....	1,378 78	
G. B. Coburn .....	111 28	
G. D. Kimball .....	111 28	
T. C. Lee & Co.....	1,142 78	
James Murphy & Son .....	141 28	
G. E. Metcalf.....	141 28	
E. E. Mansur .....	73 78	
Henry Miller.....	371 90	
N. G. Norcross.....	223 78	
Joseph Peabody, Agent.....	201 28	
Eugene G. Russell.....	37 50	
M. J. Sharkey.....	73 78	
E. M. Tucke.....	250 00	
Trull & Donovan.....	191 25	
Graham R. Whidden .....	111 28	
	<hr/>	4,710 01
Transferred to General Treasury Fund.....		12 99
		<hr/>
		\$4,723 00
		<hr/>
		<hr/>

## LAW, SALARIES.

Appropriation ....	4,826 00	
	<hr/>	\$4,826 00
		<hr/>

## EXPENDITURES.

To Frances W. Qua, City Solicitor	3,000 00	
Frances E. Andrews, Clerk...	626 00	
Appropriation for Police, services of M. E. McDonald.	1,200 00	
	<hr/>	\$4,826 00
		<hr/>
		<hr/>



## LAW, SUNDRIES.

Appropriation.....	1,200 00	
Additional Appropriation .....	115 72	
	<hr/>	1,315 72
Receipts, (N. E. Tel. & Telg. Co.)		4 10
		<hr/>
		<u>\$1,319 82</u>

## EXPENDITURES.

Telephone, Etc. :		
To N. E. Tel. & Tel, Co.....	42 00	
W. U. Telegraph Co .....	2 31	
	<hr/>	44 31
Professional Services, Witness Fees, Etc. :		
To Francis E. Andrews .....	1 60	
Lon M. Balcom.....	20 00	
G. A. Leahey .....	25 00	
B. F. Gately .....	1 35	
David Halloran, .....	4 50	
P. McCarthy .....	40 00	
Amos H. Sanborn .....	4 50	
G. F. Stiles.....	8 90	
F. W. Qua, expenses in sundry cases.....	608 39	
W. H. Ward.....	5 00	
	<hr/>	719 24
Books :		
To Commonwealth of Mass.....	1 50	
Lawyers Co-operative Associa- tion Publishing Co .....	25 00	
Little, Brown & Co.....	104 95	
Edward Thompson Co.....	22 50	153 95
	<hr/>	
Office Supplies, Etc. :		
To Butterfield Printing Co .....	3 50	
Carter Ink Co.....	38	
Courier-Citizen Co.....	12 50	
T. H. Lawler.....	48 65	
B. M. & E. Hutchins .....	1 50	
Middlesex Typewriting Co....	2 55	
	<hr/>	
Amounts carried forward.....	\$69 08	\$ 917 50

## LAW, SUNDRIES—Continued.

Amounts brought forward.....	\$ 69 08	\$917 50
Middlesex County.....	3 75	
W. J. Nagel .....	17 50	
G. C. Prince & Son.....	55 54	
Sampson, Murdock & Co .....	3 00	
F. A. M. Tobin .....	13 20	
		162 07
Transportation and Sundries :		
To American Express Co .....	1 05	
Manchester & Concord Ex Co .	20	
J. A. Gregoire. ....	168 45	
Morse Coach Co .....	18 05	
J. H. Sparks .....	4 00	
Frances E. Andrews.....	11 75	
Sadie M. Swift.....	3 00	
Middlesex County .....	33 00	
Middlesex Registry of Deeds ..	75	
		240 25
		<u>\$1,319 82</u>

## LIBRARY.

Appropriation.....	\$16,000 00	\$16,000 00
Paid Trustees Lowell Public Library	16,000 00	\$16,000 00

## LIGHTING, SALARIES AND SUNDRIES.

Appropriation.....	1,250 00	\$1,250 00
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## EXPENDITURES

To Sundry Persons, labor .....	1,003 75	
Boston & Maine R. R.....	20 00	
William Brophy.....	13 80	
Amount carried forward.....	\$1,037 55	

## LIGHTING, SALARIES AND SUNDRIES—Continued.

Amount brought forward.....	\$1,037 55	
Lowell Gas Light Co.,.....	100 06	
G. C. Prince & Son .....	7 17	
Chas. E. Robinson.....	5 88	
E. A. & A. T. Smith.....	3 00	
Waverly Hotel .....	4 00	\$1,157 66
Transferred to General Treasury Fund.....		92 34
		<u>\$1,250 00</u>

## LIGHTING, ELECTRIC LIGHTS, STREETS AND PUBLIC BUILDINGS.

Appropriation.....	\$60,988 00	
		<u>\$60,988 00</u>
Paid Lowell Electric Light Corp...	60,859 33	
		60,859 33
Transferred to General Treasury...		128 67
Fund.....		<u>\$60,988 00</u>

## LIGHTING, GAS.

Appropriation.....	25,601 00	
		<u>\$25,601 00</u>

## EXPENDITURES.

To Lowell Gas Light Co.....	262 80	
Welsbach St. Lighting Co., of America.....	25,178 71	
		25,441 51
Transferred to General Treasury...		159 41
Fund.....		<u>\$25,601 00</u>

## LIGHTING, GASOLINE.

Appropriation.....	11,156 00	
	<u>          </u>	\$11,156 00
		<u>          </u>
Paid Welsbach St. Lighting Co., of America.....	10,942 64	
	<u>          </u>	10,942 64
Transferred to General Treasury Fund.....		213 36
		<u>          </u>
		\$11,156 00
		<u>          </u>
		<u>          </u>

## LIGHTING, NEW LIGHTS.

Appropriation.....	500 00	
	<u>          </u>	\$500 00
		<u>          </u>
Transferred to General Treasury... Fund.....		\$500 00
		<u>          </u>
		<u>          </u>

## LIQUOR, LICENSES,

Appropriation.....	43,361 00	
	<u>          </u>	\$43,361 00
		<u>          </u>

## EXPENDITURES.

Paid Commonwealth of Mass.....	43,060 75	
	<u>          </u>	43,060 75
Transferred to General Treasury Fund.....		300 25
		<u>          </u>
		\$43,361 00
		<u>          </u>
		<u>          </u>

## PAUPERS, (ALMSHOUSE,) SALARIES.

Appropriation.....	2,700 00	
	<u>          </u>	<u>\$2,700 00</u>

## EXPENDITURES.

Paid Chas. E. Donlan, Supt. ....	1,928 96	
Wm. M. Jones, City Physician	700 00	
	<u>          </u>	\$2,628 96
Transferred to General Treasury...		
Fund.....		71 04
		<u>          </u>
		<u>\$2,700 00</u>

## PAUPERS, ALMSHOUSE. LABOR.

Appropriation.....	10,750 00	
Additional Appropriation .....	346 66	
	<u>          </u>	<u>\$11,096 66</u>

## EXPENDITURES.

To Sundry persons for labor.....	9,949 00	
Sundry persons, labor, Wood		
Yard.....	1,147 66	
	<u>          </u>	<u>\$11,096 66</u>

## PAUPERS ALMSHOUSE, GRAIN, GROCERIES AND PROVISIONS.

Appropriation.....	\$16,500 00	
Additional Appropriation .....	6,343 96	
	<u>          </u>	22,843 96
Receipts from Appropriation Paupers		
Out-Door Relief, Sundries.	7,638 00	
Receipts from Appropriation Health		
Small Pox .....	526 34	
	<u>          </u>	8,164 34
		<u>          </u>
		<u>\$31,008 30</u>

## PAUPERS, SUNDRIES—Continued.

## EXPENDITURES.

To C. M. Allen.....	377 00
F. M. Bill & Co .....	1,977 98
J. Boyle & Sons .....	595 20
G. J. & D. Bradt.....	166 41
Owen E. Brennan .....	351 84
Wm. J. Burbeck .....	111 81
Donovan & Co .....	396 73
Family Supply Co .....	158 01
Fleischman & Co .....	141 60
Joseph Flynn.....	322 00
James E. Brennan .....	952 30
David Gerow.....	231 55
W. H. I. Hayes.....	42 24
Wm. A. Ingham Co.....	514 88
Keefe Bros.....	513 35
John J. Lee.....	146 90
Wm. E. Livingston Co.....	247 38
Lowell Packing Co.....	8,330 87
Joseph Mullen .....	16 00
John McCullough.....	101 99
H. E. Noyes & Son.....	2,960 01
O'Brien Bros.....	453 52
Armour & Co.....	53 52
Pawtucketville Cash Grocery ..	1,446 90
Geo. E. Putnam & Son.....	1,024 95
Simpson & Rowland .....	635 98
J. Spinola .....	657 16
Geo. M. Teel.....	66 09
Vigeant-Dumas & Co.....	124 50
J. J. Johnson .....	174 90
Bartlett & Buckley.....	68 01
J. J. Gallagher.....	19 24
C. P. Comerford.....	209 00
H. C. Clough .....	11 25
S. K. Dexter .....	410 00
Frye & Crawford.....	2 70
Jos. S. Herrick .....	107 75
T. J. McDonald .....	266 16
R. J. McCluskey .....	7 92
Mansfield, Witham & Co .....	925 50
Amount carried forward.....	\$25,321 10

## PAUPERS, SUNDRIES—Continued.

Amount brought forward.....	\$25,321 10	
O'Brien & Co.....	1,538 11	
Thos. Roark .....	60	
Harry T. B. Richardson.....	11 00	
Chas. W. Wilder.....	505 00	
Calderwood & Robbins.....	62 02	
Patrick Fitzgibbons .....	18 00	
Edward Gallagher .....	101 47	
Highland Provision Co.....	87 25	
Thos. F. Hennesey.....	10 29	
E. M. Slayton Co .....	334 39	
Cass & Cass.....	120 55	
Coffey Bros.....	1,042 75	
Lowell Gas Light Co.....	89 55	
Wm. J. Murphy.....	46 43	
J. W. Tarte.....	100 25	
O. D. Wilder .....	127 73	
Carl Noyes.....	130 89	
Oakale Mfg. Co .....	168 00	
J. B. Sabre.....	10 00	
Peter J. Brady.....	980 62	
Breen Bros.....	56 75	
Lowell Coal Co.....	6 35	
F. R. Strout .....	138 75	
P. A. Yerxa .....	45	
		<u>\$31,008 30</u>

## PAUPERS, ALMSHOUSE, SUNDRIES.

Appropriation.....	19,550 00	
		<u>19,550 00</u>
Receipts, Appropriation Out-Door		
Relief.....	4,483 50	
Schools.....	569 80	
N. E. Tel. & Tel...	4 56	
		<u>5,057 86</u>
		<u>\$24,607 86</u>



## PAUPERS ALMSHOUSE, SUNDRIES—Continued.

## EXPENDITURS.

## Lighting, Telephone and Water :

To Lowell Gas Light Co.....	1,060 29	
N. E. Tel. & Tel. Co.....	66 97	
Appropriation for Water Works :	1,416 82	
	<hr/>	2,544 08

## Fuel :

To Pierre Bourgeois.....	210 66	
Edward Cawley... ..	1,217 33	
Matthew F. Downs.....	448 90	
Daniel Gage.....	245 73	
D. W. Horne & Son.....	165 71	
W. E. Livingston Co.....	16 34	
Joseph Mullin.....	509 31	
Parker Coal & Wood Co.....	9 00	
Daniel T. Sullivan.....	3,616 56	
	<hr/>	6,439 54

## Clothing, Dry Goods, Etc. :

To Bartlett & Buckley.....	96 08	
F. M. Bill & Co.....	89 10	
Bon Marche.....	93 40	
Boulger Shoe Co.....	30 75	
J. L. Chalifoux.....	70 25	
Cook, Taylor & Co.....	48 75	
C. M. Dickey.....	6 00	
John J. Doherty.....	6 00	
Empire Laundry Machinery Co	6 40	
J. J. Gallagher.....	159 84	
J. T. Griffin.....	2 50	
J. E. Gorman.....	22 50	
W. H. I. Hayes.....	175 36	
House of Correction.....	23 50	
C. H. Kimball.....	11 25	
John J. Lonergan.....	29 10	
Lowell One Price Clothing Co.	282 58	
Edward Lavery.....	27 00	
Massachusetts State Prison....	694 18	
Massachusetts Reformatory....	7 82	
Merrimack Clothing Co.....	288 75	

Amounts carried forward.....	\$2,171 11	\$8,983 62
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## PAUPERS ALMSHOUSE, SUNDRIES—Continued.

Amounts brought forward.....	\$2,171 11	\$8,983 62
M. & E. Marion.....	14 68	
J. F. Miskella.....	113 90	
R. T. Mower.....	18 00	
O'Brien Bros.....	79 34	
O'Donnell & Gilbride Co.....	688 88	
A. G. Pollard & Co.....	52 24	
James A. Riley.....	15 50	
M. Sullivan.....	28 80	
Sunlight Shoe Store Co.....	19 90	
J. E. Shanley.....	141 45	
Simpson & Rowland.....	41 30	
Teague & Teague.....	100 40	
Talbot Clothing Clothing Co...	48 00	
Thomas H. Kelley.....	495 00	
		4,028 50
Furniture, Etc. :		
To Adams & Co.....	20	
Automatic Dime Stamp Co....	75 00	
John J. Cluin.....	12 00	
John J. Doherty & Co.....	48 75	
Gookin Bros.....	74 46	
Robertson & Co.....	41 50	
Singer Mfg. Co.....	35 00	
		286 91
Lumber :		
To Burnham & Davis.....	8 88	
Pratt & Forrest.....	155 62	
Wm. H. Wiggin.....	143 61	
		308 11
Pipe, Fittings, Etc. :		
To Carroll Bros.....	41 80	
J. D. Danahy.....	258 69	
John E. Drury.....	273 07	
Farrell & Conaton.....	86 60	
Geo. P. Green.....	34 11	
A. G. Hill.....	3 40	
W. A. Mack & Co.....	35 99	
Scannell & Wholey.....	217 75	
Scott & O'Day.....	6 11	
Upton & Gilman.....	1 20	
Amounts carried forward.....	\$958 72	\$13,607 14

## PAUPERS ALMSHOUSE, SUNDRIES—Continued.

Amounts brought forward.....	\$958 72	\$13,607 14
H. H. Wilder & Co.....	56 75	
Welch Bros.....	28 70	
		1,044 17
Hardware, Etc.:		
To Adams Hardware & Paint Co..	29 68	
H. R. Barker Mfg. Co.....	5 60	
W. T. S. Bartlett.....	2 50	
Boutwell Bros.....	5 85	
John Callaghan.....	2 10	
Challenge Tube Cleaning Co..	3 00	
F. W. Cheney & Co.....	36 94	
E. P. Flanders & Co.....	139 63	
A. G. Hill.....	2 10	
W. A. Mack & Co.....	13 25	
Nason B. Parsons.....	2 40	
Thompson Hardware Co.....	15 83	
		258 88
Stationery, Printing, Etc.:		
To Baker Printing Co. ....	7 32	
Buckland Printing Co. ....	16 50	
Courier-Citizen Co.....	19 50	
J. M. Fellows.....	6 40	
Thos. H. Lawler.....	25 70	
G. C. Prince & Son.....	42 76	
Sampson, Murdock & Co.....	3 00	
M. G. Wight & Co.....	8 75	
		129 93
Painters Supplies, Etc.:		
To Adams Hardware & Paint Co..	143 53	
J. Boyle & Sons.....	3 75	
J. W. Bennett Co. ....	23 83	
Sylvester Bean.....	55 64	
C. B. Coburn & Co.....	480 04	
Columbian Insecticide Co.....	490 01	
P. Dempsey & Co.....	26 50	
Geo. E. Hutchins.....	1 80	
E. P. Houle & Son, fire-works.	85 00	
A. L. Kittredge & Co.....	31 68	
Lowell Polish Co.....	1 75	
Amounts carried forward.....	\$1,343 53	\$15,040 12

## PAUPERS ALMSHOUSE, SUNDRIES—Continued

Amounts brought forward.....	\$1,343 53	\$15,040 12
Murphy Varnish Co.....	87 50	
Thompson Hardware Co.....	75	
Talbot Dyewood & Chemical Co.....	152 10	
	<hr/>	1,583 88
Mason Work and Material :		
To P. Conlon .....	74 70	
Connors Bros.....	3 85	
D. T. Sullivan.....	2 50	
	<hr/>	81 05
Appraisal of Property :		
To John A. Connelly.....	70 00	
John T. McOsker.....	70 00	
J. H. Sparks.....	70 00	
	<hr/>	210 00
Drugs and Medicines :		
To G. C. Brock & Co. ....	50	
Carleton & Hovey.....	20 73	
C. B. Coburn & Co.....	31 97	
Chas. E. Carter.....	36 25	
C. A. Daly.....	26 64	
P. Dempsey & Co.....	209 63	
F. H. Butler & Co.....	67 40	
A. W. Dows & Co.....	8 35	
Peter H. Donohoe.....	82 36	
Frank C. Goodale.....	107 78	
Edward S. Houle.....	8 35	
Fred Howard.....	20 00	
Lowell Pharmacy.....	7 65	
R. J. Lang & Co.....	147 74	
E. A. McQuade.....	115 72	
E. T. McEvoy.....	50 50	
Frank E. McNabb.....	74 12	
Wm. H. Pearson.....	55 30	
Harry L. Timmons.....	43 00	
Talbot Dyewood & Chemical Co.....	170 30	
Zopher Co.....	142 96	
	<hr/>	1,427 25
Amount carried forward .....		\$18,342 30

## PAUPERS ALMSHOUSE, SUNDRIES—Continued.

Amount brought forward...	\$18,342 30	
Professional Services :		
To R. B. Banks .....	13 50	
J. A. Gage .....	5 00	
	<hr/>	18 50
Stable Expenses :		
To T. M. Bolton .....	57 60	
J. A. Blakely .....	2 00	
Owen J. Carney .....	59 40	
Cahill Bros .....	66 70	
J. J. Donnelly .....	80 80	
Donovan Harness Co. ....	36 80	
C. Desmond .....	31 00	
Josiah Gates & Sons .....	16	
F. B. Hill & Co. ....	54 45	
C. H. Hanson & Co. ....	175 00	
M. J. Haggerty .....	5 50	
H. J. O'Dowd .....	200 00	
Henry Reynolds .....	33 60	
J. H. Swett. ....	11 59	
	<hr/>	814 60
Transportation :		
To Boston & Maine R. R. ....	63 68	
Boston & Lowell Des. Ex. Co.	25	
Manchester & Concord Ex. Co.	15	
N. Y. N. H. & H. R. R. ....	25	
	<hr/>	64 33
Sundries :		
To A. Bachelder & Co., plugs....	1 00	
J. E. Buerk, dials .....	1 80	
Owen E. Brennan .....	1 80	
J. N. Carter & Co., excelsior..	18 00	
C. B. Coburn & Co., baskets..	15 00	
John Cross, tents .....	195 20	
W. A. Dickenson, soap .....	175 89	
John E. Drury, plumbing ....	73 40	
E. H. Foye, bags .....	84 88	
Joseph Fay, leather .....	64 49	
Fort Hill Paper Co., paper....	20 85	
	<hr/>	
Amounts carried forward .....	\$652 31	\$19,239 73

## PAUPERS ALMSHOUSE, SUNDRIES—Continued.

Amounts brought forward.....	\$652 31	\$19,239 73
Goldena Mfg. Co., goldena....	36 00	
M. Donovan & Co., lemons....	22 50	
Greenwood Bros.....	3 75	
A. W. Greeley, tuning piano .	2 00	
David Gerow, flour.....	24 50	
Leach & Green.....	11 17	
May M. Hickson, typewriting..	15 00	
Lowell Wall Paper Co.....	37 56	
W. A. Maule, seeds.....	24 30	
P. H. Mehan & Co., roof on boiler room.....	282 50	
P. H. Mehan & Co., repairs on Insane Hospital.....	21 80	
Daniel Gage, ice.....	321 00	
R. T. Mower, spectacles.....	3 00	
Geo. E. Hutchins, rubber cloth.	25 00	
John P. Donohue, dental services	3 00	
Wm. E. Livingston Co., meal..	3 30	
T. J. McDonald, oats.....	62 50	
James Murkland & Son.....	30 83	
Nason B. Parsons, filing saw ..	30	
Scannell & Wholey, castings...	120 08	
E. G. Twohey, repairs.....	295 00	
Town of Chelmsford, trees....	61 60	
J. T. Griffin, tobacco.....	119 05	
J. J. Gallagher, tobacco.....	13 75	
Henry F. Whiting.....	2 30	
Whittet & Co, plants.....	22 07	
		2,216 09
		21,455 82
Transferred to General Treasury Fund.....		3,152 04
		<u>\$24,607 86</u>

## PAUPERS, OUT-DOOR RELIEF, SALARIES.

Appropriation.....	3,782 50	
	<hr/>	3,782 50
		<hr/>

## EXPENDITURES.

To Martin J. Courtney, Secretary .	1,800 00	
Jas. F. Walsh, Clerk.....	1,200 00	
Nellie A. Keyes, Clerk.....	782 50	
	<hr/>	\$3,782 50
		<hr/>

PAUPERS, OUT-DOOR RELIEF OFFICE, SUNDRIES AND  
TRANSPORTATION.

Appropriation.....	892 50	
	<hr/>	\$892 50
		<hr/>

## EXPENDITURES.

## Stationery, Printing, Etc. :

To Baker Printing Co .....	5 15	
Carters Ink Co.....	76	
Courier-Citizen Co.....	8 00	
Dumas & Co.....	12 75	
Thomas H. Lawler.....	5 00	
Lawler Printing Co .....	6 00	
Lyons Platinum Pen Co .....	4 50	
G. C. Prince & Son.....	60 83	
Chas. E. Robinson .....	34 65	
Smith Premier Typewriter Co..	47 75	
F. A. M. Tobin.....	7 00	
	<hr/>	192 39

## Transportation :

To American Ex. Co.....	31 22	
Boston & Maine R. R.....	223 01	
J. J. Gallagher.....	23 50	
J. H. Sparks.....	3 00	
	<hr/>	280 73

Amount carried forward.....		\$473 12
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PAUPERS, OUTDOOR RELIEF OFFICE, SUNDRIES AND  
TRANSPORTATION—Continued.

Amount brought forward.....	\$473 12	
M. J. Courtney.....	266 90	
N. E. Tel. & Tel. Co .....	17 84	
	<hr/>	284 74
		<hr/>
		757 86
Transferred to General Treasury Fund.....		134 64
		<hr/>
		\$892 50
		<hr/>
		<hr/>

PAUPERS, OUT-DOOR RELIEF, GENERAL SUNDRIES.

Appropriation.....	47,325 00	
Additional Appropriation.....	8,292 11	
Receipts.....	215 53	
	<hr/>	55,832 64
		<hr/>
		<hr/>

EXPENDITURES.

Ambulance :

To Sundry persons for services as drivers .....	2,939 99	
F. G. Burnham, surgeon.....	50 00	
P. E. Sullivan, surgeon.....	550 00	
N.E. Tel. & Telg. Co. telephone	106 80	
Lowell Gas Light Co., lighting	21 42	
Appropriation Water Works, water.....	18 00	
W. P. Foye & Co., hay, grain, etc.....	1 45	
Lowell Coal Co., hay, grain, etc.	21 40	
T. J. McDonald, hay, grain, etc.	52 98	
H. E. Noyes & Son, hay, grain, etc.....	612 15	
J. B. Sabre, hay, grain, etc....	19 90	
O. D. Wilder, hay, grain, etc..	20 90	
	<hr/>	
Amount carried forward .....	\$4,414 99	

## PAUPERS, OUT-DOOR RELIEF—Continued.

Amount brought forward.....	\$4,414 99
T. M. Bolton, repairing harnesses .....	16 00
Donovan Harness Co., repairing harnesses .....	77 45
Cahill Bros., blacksmithing...	33 30
Chas. H. Hill, blacksmithing..	2 62
F. B. Hill & Co., blacksmithing	97 05
Joseph Hebert, blacksmithing..	1 55
D. W. Parker, blacksmithing..	5 35
Henry Reynolds, blacksmithing	59 65
Sawyer Carriage Co., blacksmithing .....	88 65
Adams Hardware & Paint Co., stable supplies .....	1 80
C. B. Coburn & Co.....	10 14
F. W. Cheney & Co., stable supplies .....	6 40
Keefe Bros., stable supplies....	25
A. L. Kittredge, stable supplies	5 60
O'Donnell & Gilbride Co., Furniture, etc.....	98 25
A. W. Baker, veterinary service	6 00
Frank C. Garvey, veterinary service .....	10 00
App. Supply .....	26 75
Boston & Maine R. R. ....	30 59
M. J. Courtney, expenses .....	81 50
John Cross .....	1 50
F. J. Doherty, painting ambulance .....	46 90
H. C. Derby, stamp .....	4 50
J. E. Gorman, repairing boots.	2 50
Morse Coach Co., carriage hire	75
McNabb Bros., laundering ....	37 64
Pneumatic Hand Stamp Co.,...	5 97
G. C. Prince & Son, stationery.	3 00
Sampson, Murdock & Co., directories .....	9 00
J. E. Shanley & Co., cloth....	4 97
J. H. Sparks, carriage hire....	10 00
Union Printing Co.....	5 00
Amount brought forward.....	\$5,205 62

## PAUPERS, OUT-DOOR RELIEF—Continued.

Amount brought forward.....	\$5,205 62	
Dispensary :		
To Edwin F. Mason, clerk.....	994 71	
		994 71
Dispensary Supplies :		
To Chas. E. Carter .....	75 50	
A. W. Dows & Co.,.....	12 33	
Peter H. Donohoe & Co.....	35 00	
Edward S. Houle.....	44 96	
R. J. Lang & Co.....	221 34	
John Lennon. ....	30 50	
Lowell Pharmacy.....	32 58	
E. T. McEvoy.....	10 00	
Wm. H. Pearson .....	52 90	
Harry L. Timmons.....	52 71	
Waiter Perfection Bandage Co.	15 00	
Zopher Co.....	236 78	
		819 60
Interments :		
To App. Public Buildings.....	167 50	
App. School Houses, sundries.	50 00	
App. School Houses, labor....	184 50	
Amedee Archambeault.....	9 00	
Napolean Biledeau.....	9 00	
Joseph Albert .....	15 00	
J. B. Currier.....	17 00	
Peter Davey .....	3 00	
Horace Ela & Son .....	10 00	
John J. Higgins.....	117 00	
J. F. O'Donnell ...	45 00	
J. J. O'Connell & Co.....	3 00	
J. F. Rogers.....	4 00	
P. H. Savage .....	49 00	
J. A. Weinbeck .....	6 00	
C. M. Young & Co .....	3 00	
		692 00
Physicians :		
To A. E. Bertrand.....	241 32	
P. Brunnelle.....	240 04	
Amounts carried forward .....	\$481 36	\$7,711 93

## PAUPERS, OUT-DOOR RELIEF—Continued.

Amounts brought forward.....	\$481 36	\$7,711 93
Chas. M. Frye.....	266 83	
T. J. Halloran .....	237 69	
A. J. Halpin.....	298 94	
W. A. Johnson.....	21 66	
J. E. Leary.....	187 26	
O. P. Porter .....	18 66	
	<hr/>	1,512 40
Support out of Almshouse :		
To City of Boston.....	482 20	
" Beverly .....	118 82	
" Chelsea .....	46 50	
" Fall River.....	70 75	
" Fitchburg .....	19 00	
" Haverhill .....	118 85	
" Holyoke .....	137 30	
" Lawrence .....	225 90	
" Lynn.....	91 50	
" Malden .....	31 00	
" Newton.....	2 45	
" Newburyport.....	89 29	
" New Bedford .....	5 00	
" Salem .....	191 00	
" Somerville .....	306 68	
" Springfield.....	31 20	
" Taunton.....	80 65	
" Waltham.....	20 39	
" Worcester.....	61 22	
Town of Andover.....	39 50	
" Avon .....	154 00	
" Ayer.....	35 00	
" Billerica.....	3 00	
" Chelmsford .....	73 50	
" Clinton.....	33 92	
" Danvers.....	12 00	
" Dracut.....	28 68	
" Easton.....	41 86	
" Gardner.....	96 38	
" Hudson .....	10 95	
" Saugus.....	70 08	
Amounts carried forward.....	<hr/> \$2,728 57	<hr/> \$9,224 33

## PAUPER, OUT-DOOR RELIEF—Continued.

Amounts brought forward.....	\$2,728 57	\$9,224 33
" Tewksbury .....	99 81	
" Westford .....	70 50	
" Provincetown.....	3 15	
Children's Hospital.....	35 75	
Convalescent Home .....	5 00	
Danvers Insane Hospital.....	3,963 29	
Lowell General Hospital.....	87 00	
Lowell Hospital Association...	77 15	
Mass. State Sanitarium .....	32 59	
Mass. School for Feeble Minded	1,016 70	
Mass. Hospital for Epileptics..	502 96	
Medfield Insane Asylum .....	4,407 30	
Perkins Institution and Mass.		
School for the Blind.....	64 88	
St. Johns Hospital .....	3,026 72	
St. Peters Orphanage.....	1,156 50	
Sisters of Charity, Lawrence...	675 59	
Sisters of Charity, Salem. ....	273 00	
Taunton Insane Hospital.....	118 92	
Worcester Insane Asylum.....	1,409 40	
Worcester Insane Hospital ....	6,947 34	
Westboro Insane Hospital.....	1,015 83	
Frances Connelly.....	10 00	
Thos. Finick.....	10 00	
Bridget Lynch.....	20 00	
J. H. Lynch .....	30 00	
Mrs. J. A. Mansfield.....	26 93	
H. O. Robinson .....	63 65	
Mrs. T. J. Tobin.....	21 00	
	<hr/>	\$27,899 53
Cash Allowances as per pay-roll ..	\$4,655 23	
	<hr/>	\$4,655 23
Provisions, Fuel, Etc., on orders :		
To App. Public Buildings, Sundries	14 00	
App. Public Buildings, Labor.	5 00	
App. Paupers Almshouse		
G. G. P.....	8,831 00	
App. Paupers Almshouse		
Sundries.....	3,290 50	
	<hr/>	
Amounts carried forward.....	\$12,140 50	\$41,779 09

## PAUPERS, OUT-DOOR RELIEF—Continued.

Amounts brought forward.....	\$12,140 50	\$41,779 09
E. J. Barrett.....	27 00	
Barrett Bros .....	3 00	
Banner Market .....	6 00	
James Boyle & Sons.....	12 00	
Breen Bros.....	150 00	
Margaret Blackburn.....	39 00	
J. H. Burke & Co.....	12 00	
A. J. Conant.....	39 00	
J. H. Corbett & Co.....	36 00	
Humphrey Coffey.....	54 00	
D. J. Donovan .....	181 00	
P. H. Daly .....	6 00	
Donovan & Co. ....	3 00	
James Farrell.....	6 00	
Furlong Bros... ..	36 00	
Family Supply Co .....	3 00	
J. E. Freeman.....	109 00	
Harry Gray .....	42 00	
David Gerow.....	2 00	
Joseph S. Herrick . . . . .	30 00	
Thos. F. Head .....	14 00	
H. J. Keyes.....	90 00	
Keefe Bros.....	136 75	
Andrew Keefe.....	3 00	
Mrs. J. J. Gilbride.....	21 00	
Geo. Lynch.....	10 00	
Thos. G. Lyons .....	12 00	
F. D. Munn & Son.....	3 00	
Merrimack Clothing Co.....	11 00	
Boulger Shoe Co... ..	13 90	
Bridget Buckley.....	3 00	
John J. McCann.....	6 00	
T. F. McSorley.....	48 00	
F. J. McCarthy.....	39 00	
M. McGlinchey.....	72 00	
John McCullough.....	3 00	
John McPhail.....	3 00	
Meagher Bros.....	3 00	
R. J. McCluskey.....	30 00	
Amounts carried forward.....	\$13,458 15	\$41,779 09

## PAUPERS, OUT-DOOR RELIEF—Continued.

Amounts brought forward.....	\$13,458 15	\$41,779 09
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A. McCarron.....	12 00
Jere McGlinchey.....	57 00
John Murray.....	6 00
Ed Martin.....	108 00
Geo. F. Maguire.....	3 00
P. Manning.....	36 00
Middlesex Market.....	54 00
New England Market.....	51 00
O'Brien Bros.....	30
O'Donnell & Gilbride Co.....	3 93
J. B. Richardson Sons.....	3 00
F. A. Tuttle.....	15 00
Vincent Bros.....	3 00
Walker & Thompson.....	6 00
P. A. Yerxa.....	5 53
Union Market.....	159 00

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13,980 91

## Sundries :

To M. J. Courtney, expenses of .		
Board.....	27 00	
Boston & Maine R. R. tickets .	40 00	
Boston & Northern St. R. R...	5 00	
Western Union Tel. Co.....	64	72 64
	<hr/>	<hr/>
		\$55,832 64

## POLICE.

## Commissioners and Clerk :

Appropriation.....	<hr/>	4,700 00
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## EXPENDITURES.

To Frank B. Dow, Chairman.....	\$1,200 00
Harry R. Rice .....	1,000 00
Peter J. Brady .....	416 66
Fisher H. Pearson.....	583 34
Joseph Smith, Clerk.....	1,500 00

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4,700 00



## POLICE, SALARIES AND LABOR—Continued.

## Salaries and Labor :

Appropriation.....	127,806 00	
Additional Appropriation.....	225 00	
Received from Sundry Departments for services of officers.....	2,203 75	
	<hr/>	\$130,234 75
		<hr/>

## EXPENDITURES.

To William B. Moffatt, Superin- tendent.....	2,000 00	
William R. Kew, Deputy Su- perintendent.....	1,500 00	
Redmond J. Welch, Deputy Superintendent.....	1,500 00	
	<hr/>	5,000 00
Michael J. Burns, Electrician..	1,500 00	
Emma V. Vining, Clerk.....	626 00	
John E. Maguire, Constable...	902 50	
Sundry Persons, Officers, etc..	119,944 96	
Sundry Persons, pensions.....	790 91	
	<hr/>	123,764 37
		<hr/>
		128,764 37
Transferred to General Treasury Fund.....		1,470 38
		<hr/>
		\$130,234 75
		<hr/>

## POLICE, SUNDRIES.

Appropriation.....	6,000 00	
Additional Appropriation.....	600 00	
Received from N. E. Tel. & Tel. Co.	12 85	
	<hr/>	6,612 85
		<hr/>

## POLICE, SUNDRIES—Continued.

Water, Lighting and Telephone		
To Appropriation for Water Works	149	51
Lowell Gas Light Co.....	330	16
Lowell Electric Light Corpora- tion .....	239	65
N. E. Tel. & Tel. Co.....	145	63
W. U. Telegraph Co.....	215	46
	<hr/>	
		\$ 1,080 41
Professional Services, Expenses of Officers, etc. :		
To M. J. Burns.....	4	00
D. J. Donaldson.....	7	50
Charles Laflamme.....	1	38
Wm. B. Moffatt.....	90	20
Joseph Smith.....	7	45
Redmond Welch.....	20	39
	<hr/>	
		130 92
Hardware :		
To E. C. Flanders.....	25	75
H. C. Girard.....	30	86
Wm. McLarney.....	5	40
Thompson Hardware Co.....	115	47
H. H. Wilder.....	1	60
C. Zimmer.....	2	20
	<hr/>	
		181 28
Lumber :		
To Pratt & Forrest.....	23	49
	<hr/>	
		23 49
Pipe, Fittings, etc. :		
To American Electric Works.....	254	81
H. R. Barker Mfg. Co.....	15	13
W. E. Decrow.....	93	50
Welch Bros.....	14	69
	<hr/>	
		378 13
Fuel, Sand, etc.		
To Edward Cawley.....	1	25
J. J. Child Coal Co.....	82	83
D. W. Horne & Son.....	188	47
D. T. Sullivan.....	1	33
	<hr/>	
		273 88
Amount carried forward.....		<hr/>
		\$2,068 11

## POLICE, SUNDRIES—Continued.

Amount brought forward..... \$2,068 11

## Station Supplies :

To Geo. F. Allen.....	3 40	
G. J. & D. Bradt.....	36 00	
F. M. Bill & Co.....	12 85	
C. B. Coburn & Co.....	57 62	
J. E. Freeman.....	6 85	
E. J. Gannon.....	6 00	
F. C. Goodale.....	1 40	
Daniel Gage.....	54 75	
Fred Howard.....	65	
G. E. Hutchins.....	5 50	
T. A. Kittredge.....	2 60	
Alvin Lawrence.....	1 25	
Lowell Wall Paper Co.....	15 00	
W. A. Maguire & Co.....	3 00	
O'Donnell & Gilbride Co.....	14 60	
The Edes Mf'g Co.....	132 00	
		<hr/>
		353 47

## Stationery, Stamps etc :

To Carters Ink Co.....	2 20	
Courier-Citizen Co.....	45 50	
J. M. Fellows.....	6 25	
Middlesex Typewriting Co...	2 50	
A. B. Merrill.....	3 00	
G. C. Prince & Son.....	274 33	
C. E. Perry & Co.....	94 20	
Sampson, Murdock & Co.....	12 00	
Smith, Premier Typewriter Co	2 00	
Frank L. Tilton.....	8 00	
		<hr/>
		449 98

## Printing, Advertising :

To Commonwealth of Mass.....	6 00	
Courier-Citizen Co.....	320 30	
Dumas & Co.....	31 00	
Daily News Co.....	52 20	
Lowell Daily Mail.....	40 00	
Lowell Sun.....	42 50	
		<hr/>
Amounts carried forward.....	\$492 00	\$2,871 56

## POLICE, SUNDRIES—Continued.

Amounts brought forward . . . . .	\$492 00	\$2,871 56
Lepine & Co. . . . .	33 50	
Library Bureau . . . . .	192 00	
Yauman Erbe Mf'g Co. . . . .	192 50	
G. C. Prince & Son . . . . .	28 05	
	<hr/>	938 05
Furniture, Repairing etc. :		
To Gookin Bros. . . . .	78 72	
O'Donnell & Gilbride Co. . . . .	2 25	
A. G. Pollard & Co . . . . .	9 06	
Robertson & Co. . . . .	3 50	
H. R. Waterman. . . . .	1 50	
	<hr/>	95 03
Cloth, Buttons, Insignia etc :		
To Robert Barris . . . . .	6 50	
Gordon Clasp Co. . . . .	55 00	
W. E. Hatch. . . . .	49 50	
C. H. Kimball & Co. . . . .	13 75	
Raphael Mastrangialo. . . . .	38 35	
O'Donnell & Gilbride Co. . . . .	16 46	
H. W. Sheffield. . . . .	2 50	
Nicholas Soroghan. . . . .	3 00	
Walsh Bros . . . . .	3 00	
Wendell, Fay & Co. . . . .	215 73	
Waterbury Button Co. . . . .	56 25	
	<hr/>	460 04
Hay, Grain, Etc.		
To Fred A. Fox. . . . .	151 20	
W. P. Foye & Co. . . . .	146 82	
Jason Fuller. . . . .	84 60	
W. E. Livingston Co. . . . .	101 51	
Joseph Mullen. . . . .	59 16	
T. J. McDonald. . . . .	98 47	
H. E. Noyes & Son. . . . .	307 80	
O. D. Wilder. . . . .	35 77	
	<hr/>	985 33
Harnesses, Carriages and Repairing.		
To R. R. Armistead . . . . .	35	
Robert Barris. . . . .	57 50	
	<hr/>	
Amounts carried forward. . . . .	\$57 85	\$5,350 01

## POLICE SUNDRIES—Continued.

Amounts brought forward.....	\$57 85	\$5,350 01
A. H. Cluer.....	65 00	
Ebert Harness Co.....	8 10	
F. B. Hill & Co.....	59 55	
Donovan Harness Co.....	81 30	
Norman Leith.....	88 60	
J. J. Norton.....	6 60	
Salois & Leith .....	58 80	
Sawyer Carriage Co.....	3 03	
	<hr/>	428 83
Laundering :		
To McNabb Bros. ....	11 87	11 87
Shoeing Horses :		
To Cahill Bros.....	23 85	
J. J. Donnelly .....	66 25	
Keefe & Horan .....	10 00	
Norman Leith .....	162 10	
M. V. B. Libby.....	7 15	
	<hr/>	269 35
Transportation, Carriage Hire, etc :		
To B. & M. Railroad .....	23 87	
American Express.....	4 30	
P. F. McNulty.....	10 00	
N. Y. & B. Despatch Ex. Co.	2 05	
N. Y. N. H. & H. Railroad Co	21 14	
J. H. Sparks.....	5 00	
	<hr/>	66 36
Sundries :		
To John Cross, rubber apron.....	1 75	
C. H. Clapp & Co., horse....	175 00	
J. A. Dow, dentistry.....	8 00	
T. B. Harmon.....	2 25	
O. J. Carney, refreshments...	15 00	
C. F. Morse, electrical apparatus and labor.....	155 73	
	<hr/>	
Amounts carried forward .....	\$357 73	\$6,126 42

## POLICE, SUNDRIES—Continued.

Amounts brought forward.....	\$357 73	\$6,126 42
J. S. Marion, Photos.....	73 50	
G. E. Mongeau.....	3 00	
U. S. Richards, veterinary....	11 00	
Geo. Shields .....	3 75	
Sunlight Shoe Store Co.....	2 00	450 98
		<hr/>
		\$6,577 40
Transferred to General Treasury...		
Fund.....		35 45
		<hr/>
		\$6,612 85
		<hr/> <hr/>

## POLICE, UNDERGROUND WIRES.

Balance Jan. 1, 1902.	894 60	
	<hr/>	
		\$894 60
		<hr/> <hr/>

## EXPENDITURES.

To Sundry persons, labor.....	175 75	
W. E. Decrow, slate terminals etc.....	264 00	
Frank Dunlap, teaming.....	2 00	
Pratt & Forrest, lumber.....	2 73	
Pettingill, Andrews Co., wire cables .....	450 00	
	<hr/>	894 48
Balance General Treasury Fund....		12
		<hr/>
		\$894 60

## PUBLIC BUILDINGS, SALARIES.

Appropriation.....	\$2,346 00	
	<hr/>	
		\$2,346 00
		<hr/> <hr/>

## PUBLIC, BUILDINGS---Continued.

## EXPENDITURES.

To Joseph S. Gillow, Supt.....	1,800 00	
Arthur S. Cutler, Clerk.....	539 00	
	<hr/>	\$2,339 00
Balance General Treasury Fund....		7 00
		<hr/>
		\$2,346 00
		<hr/>

## PUBLIC BUILDINGS, LABOR.

Appropriation .....	7,00 000	
Receipts from Sundry Departments .....	176 45	
Additional Appropriation.....	300 00	
	<hr/>	\$7,476 45
		<hr/>

## EXPENDITURES.

To Sundry persons, labor .....	7,412 12	
	<hr/>	7,412 12
Balance General Treasury Fund....		64 33
		<hr/>
		\$7,476 45
		<hr/>

## PUBLIC BUILDINGS, SUNDRIES.

Appropriation.....	7,950 00	
Receipts from Sundry Departments.	239 20	
	<hr/>	\$8,189 20
		<hr/>

## EXPENDITURES.

Water, Power and Lighting :		
To App. for Water Works.....	8 10	
Lowell Electric Light Corp....	239 16	
	<hr/>	247 26
		<hr/>
Amount carried forward.....		\$247 26



## PUBLIC BUILDINGS, SUNDRIES—Continued.

Amount brought forward .....		\$247 26
Lumber :		
To Bean & Dunbar .....	15 00	
Burnham & Davis .....	225 20	
Chas. E. Howe & Co. ....	228 18	
Amasa Pratt & Co .....	35 60	
Pratt & Forrest .....	308 52	
Wm. H. Wiggin .....	579 72	
		<hr/>
		1,392 22
Hardware :		
To Adams Hardware & Paint Co. .	34 74	
J. C. Bennett .....	34 35	
Boutwell Bros .....	1 46	
P. J. Custy .....	5 75	
F. W. Cheney & Co. ....	85	
E. P. Flanders & Co .....	2 11	
H. C. Girard .....	4 45	
Peter H. Savage .....	103 65	
H. B. Shattuck & Son. ....	50	
Thompson Hardware Co. ....	98 51	
		<hr/>
		286 37
Pipe, Fittings, Labor, Etc.		
To H. R. Barker Mfg. Co .....	66 80	
T. Costello & Co .....	107 20	
Doherty Bros .....	11 26	
John Duncan .....	1 50	
Farrell & Conaton .....	390 03	
Chas. E. Gee. ....	1 25	
W. A. Mack & Co .....	199 02	
Scannell & Wholey .....	15 28	
Scott & O'Day .....	74 40	
Welch Bros .....	315 72	
		<hr/>
		1,182 46
Painters Supplies :		
To Sylvester Bean .....	58 92	
W. T. S. Bartlett .....	200 18	
Adams Hardware & Paint Co. .	132 87	
C. B. Coburn & Co .....	682 10	
P. Dempsey & Co .....	241 33	
A. L. Kittredge & Co .....	121 62	
Murphy Varnish Co .....	273 00	
Thompson Hardware Co .....	30 80	
		<hr/>
		1,740 82
Amount carried forward .....		\$4,849 13

## PUBLIC BUILDINGS, SUNDRIES—Continued.

Amount brought forward .....	\$4,849 13	
Mason Work and Material :		
To App. Sewer Maintenance .....	12 75	
Edward Cawley .....	34 65	
Conners Bros.....	4 60	
Gumb Bros.....	4 50	
W. E. Livingston Co.....	10 48	
Staples Bros. Co.....	1 20	
	<hr/>	68 18
Stationery and Printing, Etc.		
To Buckland Printing Co.....	12 00	
Carter's Ink Co. ....	38	
Courier-Citizen Co.....	31 00	
Daily News Co.....	9 10	
Dumas & Co.....	3 75	
Lepine & Co.....	6 65	
Thos. H. Lawler... ..	2 50	
Lowell Daily Mail.....	7 50	
Lowell Sun.....	7 80	
Pneumatic Hand Stamp Co....	2 90	
G. C. Prince & Son.....	21 51	
Sunday Telegram.....	6 00	
Sampson, Murdock & Co.....	3 00	
F. A. M. Tobin.....	16 75	
Wyckoff, Seamans & Benedict..	2 50	
	<hr/>	133 34
Harnesses, Carriages and Repairs.		
To A. L. Butman.....	19 05	
Donovan Harness Co.....	40 85	
H. W. Tinker.....	65	
F. B. Hill & Co.....	238 35	
	<hr/>	298 90
Board of Horses and Shoeing :		
To James Blakely.....	100 40	
J. J. Donnelly.....	32 40	
J. E. Conant & Co.....	662 68	
P. F. McNulty .....	521 37	
	<hr/>	1,316 85
Amount carried forward.....		\$6,666 40

## PUBLIC BUILDINGS, SUNDRIES.—Continued.

Amount brought forward.....	\$6,666 40	
Carriage Hire and Teaming:		
To Hill Transfer Co .....	10 00	
C. H. Hanson & Co.....	43 50	
Norris Livery Co .....	5 00	
H. F. Pitcher.....	7 50	
J. H. Sparks.....	5 00	
		71 00
Transportation:		
To American Ex. Co.....	1 70	
B. & M. R. R.....	41 98	
B. & L. Des. Ex. Co.....	15	
Conway Transfer Co.....	55 00	
Hill Transfer Co .....	35 00	
N. Y., N. H. & H. R. R. Co..	82	
H. P. Pitcher.....	47 50	
		182 15
Sundries:		
To F. M. Bill & Co., washing		
powder.....	4 90	
Cook, Taylor & Co., cloth ....	10 07	
John Cross, repairing flag.....	50	
J. A. Dow, dentistry on horses.	4 00	
R. J. Lang & Co., fly-paper..	25	
Merrimack House, refreshments	9 00	
N.E. Tel. & Telg. Co. ....	78 70	
O'Donnell & Gilbride Co.....	28 50	
A. G. Pollard & Co., cloth....	10 82	
Peter H. Savage.....	49 75	
W. A. Sherman, veterinary		
service .....	2 00	
W. A. Snow.....	39 00	
Taylor Roofing Co., roofing...	20 00	
		257 49
		7,177 04
Transferred to General Treasury		
Fund.....		1,012 16
		\$8,189 20

## RIFLE RANGE.

Appropriation.....	700 00	
Additional Appropriation.....	2 48	
	<hr/>	702 48
		<hr/>

## EXPENDITURS.

To Bert Smithson, services.....	456 25	
App. for School Houses, labor.	80 00	
C. B. Coburn & Co .....	2 90	
E. P. Flanders & Co , hardware	55	
A. L. Kittredge & Co., crayons	20	
Thos. H. Lawler, erasers.....	2 80	
Lull & Hartford .....	57 80	
C. F. Morse, zinc.....	48	
Tucke & Parker, zinc, etc.....	21 59	
A. G. Stiles, recording .....	1 85	
Thompson Hardware Co., hardware .....	5 60	
Town of Dracut, taxes.....	69 71	
F. A. M. Tobin, printing.....	2 75	
	<hr/>	\$702 48
		<hr/>

## SCHOOLS.

Appropriation.....	275,000 00	
Additional Appropriation.....	9,654 98	
	<hr/>	284,654 98

## RECEIPTS.

From W. W. Carey, overdraft....	1 26	
Ring Music Co., overdraft..	90	
N. E. Tel. & Tel.....	22 86	
	<hr/>	25 02
		<hr/>
		\$284,680 00
		<hr/>

## SCHOOLS—Continued.

## EXPENDITURES.

To A. K. Whitcomb, Supt.....	3,000 00		3,000 00
Truant Officers.....	4,100 00		4,100 00
Teachers :			
In High School.....	32,060 05		
Grammar Schools.....	78,882 58		
Primary Schools.....	70,509 58		
Training School.....	12,735 54		
Kindergarten.....	12,353 50		
Drawing.....	1,250 00		
Music.....	1,250 00		
Sewing.....	800 00		
		209,841 25	
Assistants in Superintendents Office.	1,048 25		1,048 25
Services of Janitors.....	77 00		77 00
Books :			
To Adams, Cushing & Foster.....	5 79		
D. Appleton Co.....	62 50		
Allyn & Bacon.....	37 00		
American Book Co.....	1,998 25		
Edward E. Babb & Co.....	1,937 60		
Bowen-Merrill Co.....	1 75		
Book-keeper Publishing Co....	8 00		
Boston School Supply Co.....	884 89		
T. S. Buck.....	16 99		
T. H. Castor & Co.....	11 37		
Cambridge Botanical Supply Co	19 00		
Century Co.....	10 00		
C. C. Burchard & Co.....	60 00		
Oliver Ditson Co.....	1 50		
Doubleday, Page & Co.....	2 00		
Funk & Wagnall Co.....	21 00		
Dodd, Mead & Co.....	1 67		
Ginn & Co.....	1,241 98		
Amounts carried forward.....	\$6,321 29	\$218,066 50	

## SCHOOLS—Continued.

Amounts brought forward.....	\$6,321 29	\$218,066 50
Gregg Publishing Co.....	216 67	
J. L. Hammett Co.....	240 72	
D. C. Heath & Co.....	320 13	
Houghton, Mifflin & Co.....	229 01	
Hinds & Noble.....	6 40	
Henry Holt & Co.....	126 45	
Geo. F. King & Co.....	527 50	
J. B. Lippincott Co.....	105 00	
Maynard, Merrill & Co.....	417 00	
Morse Co.....	260 26	
McMillan Co.....	9 00	
G. & C. Merriam Co.....	9 25	
Longmans, Green & Co.....	2 43	
Rand, McNally & Co.....	10 00	
Richardson, Smith & Co.....	333 09	
B. H. Sanborn Co.....	21 11	
Horace Partridge Co.....	10 80	
Sibley & Decker.....	21 87	
Silver, Burdette & Co.....	488 88	
Thompson, Brown & Co.....	100 00	
University Publishing Co.....	72 00	
A. C. Van Sant.....	7 55	
Warner School Book Co.....	108 56	
White & Smith Pub. Co.....	11 25	
	<hr/>	9,976 22

## Blank Books, Stationery etc :

To American-Luxfer Prism Co .	35 00
Amberg File & Index Co ....	1 80
Atkinson & Mentzer.....	15 50
Baker Printing Co.....	31 40
E. A. Burgess.....	8 60
Butterfield Printing Co.....	9 00
Buckland Printing Co.....	6 50
Courier-Citizen Co.....	153 55
Oliver Ditson Co.....	157 67
Dumas & Co.....	196 40
Joseph A. Dane. ....	5 00
Ellis Publishing Co.....	2 74

Amounts carried forward.....	\$623 16	\$228,042 72
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## SCHOOLS—Continued.

Amounts brought forward.....	\$623 16	\$228,042 72
Educational Publishing Co.....	12 50	
J. M. Fellows.....	2 10	
F. J. Fleming.....	72 00	
Holden Patent Book Cover Co.....	205 92	
J. L. Hammett Co. ....	55 61	
Geo. E. Hutchins.....	60	
Kenney Bros. & Wilkins.....	15 00	
Lawler Printing Co.....	120 80	
Thos. H. Lawler.....	849 98	
Library Bureau.....	3 24	
Libby Printing Co.....	43 71	
Osmond Long.....	54 90	
McMaster & Co.....	1 00	
Middlesex Typewriting Co....	1 00	
Geo. S. Perry & Co.....	12 00	
G. C. Prince & Son.....	1,943 93	
Pemberton Law Stationery Co.	10 00	
Chas. R. Preston.....	4 00	
Chas. E. Robinson... ..	79 40	
Carl Strauss.....	6 25	
S. Elizabeth Read.....	4 00	
Sampson, Murdock & Co.....	15 00	
Smith, Premier Typewriter Co	11 75	
The Schapirograph Co.....	12 75	
F. A. M. Tobin.....	209 15	
Union Printing Co.....	326 04	
Henry C. Wilder.....	10 44	
Wagner Typewriter Co.....	630 00	
M. G. Wight & Co.....	178 78	
John Wiley & Sons.....	4 23	
Wyckoff Seamen & Benedict..	218 31	
Neostyle Co.....	2 50	
		5,740 05
Lumber:		
To Burnham & Davis.....	43 42	
Chas. E. Howe & Co.....	26 73	
Pratt & Forrest.....	27 69	
Wm. H. Wiggins.....	202 43	
		300 27
Amount carried forward.....		\$234,083 04



## SCHOOLS—Continued.

Amount brought forward..... \$234,083 04

## Hardware, Etc. :

To Adams Hardware & Paint Co .	30 35
Owen E. Brennan.....	1 46
Boutwell Bros .....	35 81
Buck Bros .....	1 20
J. C. Bennett.....	3 40
John Callaghan.....	22 53
F. W. Cheney & Co .	140 63
E. P. Flanders .....	199 82
Henry C. Girard .....	38 18
Geo. E. Hutchins.....	5 75
W. T. S. Bartlett. ....	19 28
W. A. Mack & Co.....	146 17
John Martin. ....	4 01
H. B. Shattuck & Son. ....	38 80
J. E. Snyder .....	115 64
Thompson Hardware Co.....	80 03

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883 06

## Pipe, Fittings, Etc. :

To D. W. Allen.....	83 30
Carroll Bros .....	7 20
W. W. Carey.....	9 26
John Callaghan.....	40
P. J. Custy & Co .....	12 00
Doherty Bros .....	1 08
L. A. Lantz.....	13 75
Lowell Machine Shop .....	3 50
D. Lovejoy & Son.....	6 30
J. L. Mott Iron Works .....	35 00
Union Iron Foundry.....	15 55
Washburn Shops of Worcester	
Polytechnic Institute.....	99 00
Welch Bros .....	47 41

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333 75

## Repairs on Electrical Apparatus :

To H. F. Harding.....	13 96
C. H. May & Co .....	10 29
C. F. Morse.....	15 80
B. F. Sturtevant Co.....	7 81

Amounts carried forward.....

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\$47 86

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\$235,299 85

## SCHOOLS—Continued.

Amounts brought forward.....	\$47 86	\$235,299 85
Tucke & Parker .....	387 53	
Zeigler Apparatus Co.....	30	
	<hr/>	435 69
Paint, Oil, Chemicals, Etc. :		
To Adams Hardware & Paint Co .	17 45	
Sylvester Bean.....	8 93	
F. M. Bill & Co.....	1 80	
C. B. Coburn & Co.....	171 36	
F. W. Cheney & Co.....	42 15	
Harry F. Harding .....	31 39	
Geo. E. Hutchins.....	20 15	
Keeffe Bros.....	84	
A. L. Kittredge & Co.....	517 58	
Thresea Kittredge.....	15 80	
Masury, Young & Co.....	13 00	
W. I. Rollins .....	4 40	
Thompson Hardware Co.....	1 78	
H. F. Whiting .....	9 47	
	<hr/>	856 10
Laboratory Supplies :		
To F. M. Bill & Co .....	12 00	
Bansen & Lomb Optical Co....	6 81	
Colman Chemical Co.....	108 00	
P. Dempsey & Co .....	2 75	
Euner & Amend.....	12 76	
Jas. E. Freeman .....	16 80	
M. W. Hale.....	80	
L. E. Knott Apparatus Co....	57 43	
Alfred M. Robbins & Martin Co	126 63	
Thos. Rourke.....	5 00	
Simpson & Rowland.....	1 70	
Talbot Dycewood & Chemical Co	14 42	
Zopher Co.....	34 00	
	<hr/>	399 10
Furniture, Cloth, Etc. :		
To Bon Marche.....	1 80	
M. Bellefontaine .....	15 00	
P. J. Custy & Co.....	20 00	
Continental Brush Co.....	168 50	
	<hr/>	
Amounts carried forward.....	\$205 30	\$236,990 74

## SCHOOLS—Continued.

Amounts brought forward.....	\$205 30	\$236,990 74
Gookin Bros .....	84 25	
Lowell Steam Carpet Cleaning Co.....	1 75	
W. A. Mack & Co.....	10 55	
J. H. Martin.....	45 04	
McKissock Carpet Cleaning Co	3 03	
O'Donnell & Gilbride Co.....	83 46	
A. G. Pollard & Co.....	109 52	
Robertson & Co .....	5 00	
J. E. Shanley & Co.....	55	
W. H. Spaulding & Co. ....	10 30	
	<hr/>	558 75
Music :		
To American Orchestra.....	51 00	
Hibbard's Orchestra.....	82 00	
Lowell Cadet Band.....	50 00	
W. A. Owen .....	14 00	
Ida I. Wilson .....	16 50	
	<hr/>	213 50
Musical Supplies :		
To Irving A. Foote .....	135 00	
Peter Gallagher.....	47 80	
Ring Music Co.....	5 80	
	<hr/>	188 60
Repairing Carriages, Harnesses, Etc. :		
To T. M. Bolton.....	1 00	
Donovan Harness Co.....	65 60	
Ebert Harness Co.....	6 15	
F. B. Hill & Co.....	58 25	
Sawyer Carriage Co.....	56 59	
H. F. Whiting.....	1 50	
	<hr/>	189 09
Shoeing and Board of Horses :		
To John J. Donnelly.....	81 60	
J. H. Sparks.....	542 46	
	<hr/>	624 06
Fuel :		
To App. Paupers Almshouse.....	187 72	
Jas. J. Child Coal Co.....	3,150 25	
	<hr/>	
Amounts carried forward.....	\$3,337 97	\$238,764 74

## SCHOOLS—Continued.

Amounts brought forward.....	\$3,337 97	\$283,764 74
Edward Cawley .....	3,142 68	
P. P. Connors & Co.....	20 00	
D. W. Horne & Son .....	315 22	
C. H. Hanson & Co.....	83 45	
W. A. Jepson.....	52 74	
W. E. Livingston Co.....	13 12	
Moore & Bennett Coal Co.....	2,422 49	
Joseph Mullin.....	29 56	
D. T. Sullivan .....	167 42	
	<hr/>	9,584 65
Lighting and Power :		
To Lowell Gas Light Co.....	266 91	
Lowell Electric Light Co.....	1,577 44	
	<hr/>	1,844 35
Transportation, Carriage Hire, Etc. :		
To American Express Co.....	41 95	
Boston & Lowell Des. Ex. Co.	12 35	
B. & M. R. R .....	13 30	
Boston & Northern St. Railway	169 00	
Conway Transfer Co.....	7 81	
D. W. Horne & Son.....	27 53	
C. H. Hanson & Co.....	20 25	
Hill Transfer Co.....	10 05	
Manchester & Concord Ex. Co	15 20	
N. Y., N. H. & H. Railroad..	8 44	
N. Y. & B Des. Ex. Co.....	10 00	
C. W. Post.....	56 38	
	<hr/>	392 26
Sundries :		
To App. for Purchase of Wood...	600 63	
" " Paupers, Almshouse		
Sundries.....	382 08	
App. for Public Buildings, labor	145 52	
" " School Houses, labor	1,356 02	
App. School Houses, sundries.	603 76	
App. for Water Works.....	1,368 65	
	<hr/>	
Amounts carried forward.....	\$4,456 66	\$250,586 00

## SCHOOLS—Continued.

Amounts brought forward .....	\$4,456 66	\$250,586 00
Mary F. Devine .....	33 75	
Marietta King.....	10 00	
Allen, Totman & Co .....	267 95	
F. H. Adams .....	35 40	
Paul R. Burt .....	3 50	
Patrick Brady.....	14 25	
Geo. W. Bicknell.....	50 00	
John J. Cluin.....	97 00	
John Cross.....	25	
E. S. Colton .....	59 70	
E. H. Foye .....	10 50	
Matthew F. Doyle .....	22 00	
F. J. Flemings .....	24 00	
Geo. H. Gage.....	28 50	
Gookin Bros.....	351 00	
Chas. Griffin .....	8 00	
Grant Jewelry Co.....	18 00	
M. W. Hale .....	75	
Geo. E. Brown.....	2 04	
Thos. Hannafin.....	2 00	
Geo. E. Hutchins.....	18 28	
Roy Hopping.....	1 90	
Geo. L. Lawson .....	10 92	
J. L. Hammett Co.....	20 99	
Alvin Lawrence .....	9 00	
Lowell Wall Paper Co .....	21 50	
Lowell Coal Co.....	2 00	
W. S. Munroe.....	35 00	
Merrimack Mfg. Co.....	100 00	
Fred Macey Co.....	10 44	
Philip McNulty .....	25 00	
Jas. Murkland & Son.....	5 58	
McNabb Bros .....	7 16	
Middlesex County Truant School	3,430 50	
Middlesex North Agricultural Society	10 00	
J. J. McMannamon.....	4 00	
C. A. Nichols .....	6 00	
O'Brien Bros .....	35	
O'Donnell & Gilbride Co.....	5 94	
Pratt & Forrest. ....	5 82	
Amounts carried forward.....	\$9,225 13	\$250,586 00

## SCHOOLS, —Continued.

Amount brought forward .....	\$9,225 13	\$250,586 00
D. L. Page Co.....	55	
Thos. Rourke.....	2 10	
Wm. Read & Sons.....	354 65	
L. J. & J. A. Rogers.....	25 00	
Ring Music Co.....	15 60	
Geo. F. Sturtevant.....	16 75	
Spencer & Co.....	75	
J. A. Shanley.....	26 30	
James Stanley.....	3 00	
A. K. Whitcomb.....	69 97	
A. C. Wheelock.....	216 00	
H. E. Wilson.....	40	
Whittet & Co.....	15 75	
Geo. E. Worthen.....	25 00	
H. F. Whiting.....	1 00	
Geo. H. Wood.....	2 00	
J. A. Swasey.....	20 00	
Wadsworth, Howland & Co..	45 58	
Albert Brigham.....	8 19	
Mrs. N. L. Wheeler.....	23 10	
Jas. E. Freeman.....	7 80	
Zopher Co.....	44 50	
	<hr/>	10,149 12
To N. E. Tel. & Tel. Co.....	170 00	
Western Union Telg. Co.....	2 30	
	<hr/>	172 30
Evening Schools:		
To sundry persons for services as teachers.....	14,049 25	
Sundry persons for services as janitors.....	1,563 75	
E. E. Babb & Co.....	114 66	
Boston School Supply Co.....	94 89	
Baker Printing Co.....	7 50	
Paul R. Burt.....	10 00	
Edward Cawley.....	115 22	
John Cross.....	10 00	
Courier-Citizen Co.....	33 00	
	<hr/>	
Amounts brought forward.....	\$15,998 27	\$260,907 42

## SCHOOLS—Continued.

Amounts carried forward.....	\$15,998 27	\$260,907 42
P. Caproni & Bro .....	16 70	
Grègg Publishing Co . . . . .	50 00	
E. Judge.....	2 75	
Lowell Gas Light Co.....	1,076 13	
Lowell Electric Light Corp....	403 26	
Lowell Bill Posting Co .....	8 00	
Lawler Printing Co .....	6 35	
Morse Coach Co.....	1 50	
James Morris.....	50 00	
Page Catèring Co.....	15 00	
Practical Text Book Co .....	22 50	
G. C. Prince & Son.....	48 00	
Rowena Palmer.....	25 00	
John Scott .....	1 00	
J. A. Shanley .....	15 75	
G. F. Sturtevant.....	16 50	
M. Steinert & Sons.....	9 00	
F. A. M. Tobin.....	57 25	
H. W. Tarbell .....	4 00	
A. C. Van Sant .....	8 36	
		17,835 32

## Drawing School:

To Sundry persons for services as teachers and janitor.....	4,240 00	
Sylvester Bean.....	3 90	
C. B. Coburn & Co.....	8 85	
N. A. Davis.....	7 50	
P. Dempsey & Co.....	5 50	
W. M. Foster.....	16 30	
Gookin Bros.....	18 75	
A. L. Kittredge & Co.....	3 75	
Lowell Electric Light Corp...	261 58	
Lawler Printing Co.....	5 80	
Wm. E. Livingston Co.....	2 00	
S. G. Stevens.....	9 00	
F. A. M. Tobin.....	3 50	
		4,586 43

Amount carried forward ..... 283,329 17



## VACATION SCHOOLS.

Amount brought forward.....		\$283,329 17
To Sundry persons as per pay-roll	881 00	
App. School Houses, Labor ..	87 62	
App. School Houses, Sundries	2 40	
Boston & Lowell Des. Ex. Co.	75	
Owen E. Brennan.....	9 10	
Grace D. Batchelder.....	9 47	
W. J. Burbeck.....	14 40	
John Condon.....	30 00	
Edward Cawley.....	16 00	
E. P. Flanders & Co....	11 00	
Arthur A. Foster.....	26 25	
J. L. Hammett Co.....	16 41	
Wm. Joyce.....	1 50	
A. L. Kittredge & Co.....	3 00	
D. P. Knowlton.....	15 00	
Lowell Gas Light Co.....	2 34	
Wm. Liddle.....	30 00	
Clarence Mahoney.....	56 45	
O'Brien Bros.....	2 22	
O'Donnell & Gilbride Co....	30 99	
G. C. Prince & Son.....	5 75	
Union Market.....	24 18	
Geo. C. Wright.....	75 00	
	<hr/>	1,350 83
		<hr/>
		<u>\$284,680 00</u>

## SCHOOL HOUSES, LABOR &amp; JANITORS.

Appropriation.....	44,500 00	
Additional Appropriation.....	300 00	
Receipts from sundry departments..	3,610 19	
	<hr/>	48,410 19
		<hr/>

## SCHOOL HOUSES LABOR AND JANITORS—Continued.

## EXPENDITURES.

To Sundry persons, labor .....	16,034 96	
Sundry persons, janitors .....	32,186 80	
		48,221 76
Transferred to General Treasury Fund.....		188 43
		<u>\$48,410 19</u>

## SCHOOL HOUSES, SUNDRIES.

Appropriation.....	8,000 00	
Additional Appropriation.....	452 48	
Receipt from sundry departments...	814 51	
		<u>\$9,266 99</u>

## EXPENDITURES.

## Lumber :

To Burnham & Davis .....	46 62	
Chas. E. Howe & Co .....	140 94	
Amasa Pratt & Co .....	36 50	
Pratt & Forrest....	867 27	
Wm. H. Wiggin.....	576 83	
		1,668 16

## Hardware :

To Adams Hardware & Paint Co..	36 75	
Boutwell Bros .....	1 40	
W. T. S. Bartlett.....	70 49	
F. W. Cheney.....	50 45	
Chandler Adjustable Chair and Desk Co.....	12 00	
E. P. Flanders & Co.....	92 50	
H. C. Girard.....	80	
Geo. E. Hutchins .....	30	
W. A. Mack & Co.....	12 00	
H. B. Shattuck & Son....	31 97	
Thompson Hardware Co .....	128 04	
H. H. Wilder & Co.....	53 85	
		490 55

Amount carried forward ..... \$2,158 71

## SCHOOL HOUSES—Continued.

Amount brought forward .....	\$2,158 71	
Pipe, Fittings, Labor, Etc.		
To H. R. Barker Mfg. Co.....	34 89	
Challenge Tube Cleaner Co....	4 00	
T. Costello & Co.....	3 35	
Carroll Bros.....	62 24	
John E. Drury.....	52 57	
J. D. Danahy.....	43 54	
E. L. Farrell.....	10 20	
Farrell & Conaton .....	658 48	
F. B. Hill & Co.....	15 50	
L. A. Lantz & Co.....	4 00	
W. A. Mack & Co.....	2,106 46	
Scannell & Wholey.....	1,004 34	
J. W. Stewart .....	38 48	
Tucke & Parker.....	7 12	
Welch Bros.....	773 17	
		4,818 34
Painters Supplies :		
To Adams Hardware & Paint Co .	28 17	
Sylvester Bean .....	61 50	
Jas. Boyle & Sons.....	28	
C. B. Coburn & Co .....	165 37	
P. Dempsey & Co .....	131 60	
Keefe Bros.....	2 00	
A. L. Kittredge & Co.....	71 16	
		460 08
Furniture :		
To Gookin Bros.....	60	
		60
Mason Work, Slating, Etc. :		
To W. H. Banford & Co .....	133 73	
Edward Cawley .....	7 85	
M. F. Connor.....	1,086 00	
J. L. Douglass & Co.....	16 78	
J. L. Hammett Co.....	27 03	
W. E. Livingston Co.....	101 25	
Samuel E. Snow.....	113 10	
D. T. Sullivan.....	6 25	
		1,491 99
Amount carried forward.....		\$8,929 72

## SCHOOL HOUSES—Continued.

Amount brought forward ..... \$8,929 72

## Sundries:

To Owen E. Brennan.....	5 50	
J. E. Conant & Co.....	126 42	
Conway Transfer Co.....	50	
J. L. Douglass & Co.....	50 00	
Thomas H. Elliot.....	50 00	
Josiah Gates & Sons.....	8 72	
C. A. Gilman.....	10 00	
F. B. Hill & Co.....	1 00	
W. E. Livingston & Co.....	20	
C. F. Morse.....	27 35	
O'Donnell & Gilbride Co....	12 00	
A. Parsons.....	1 85	
J. E. Shaw & Co.....	1 25	
F. A. M. Tobin.....	16 40	
Tucke & Parker.....	25 18	
H. F. Whiting.....	90	
		337 27
		<u>\$9,266 99</u>

## SEWER MAINTENANCE.

Appropriation .....	23,500 00	
Receipts from Sundry Depart- ments .....	3,210 81	
		<u>\$26,710 81</u>

## EXPENDITURES.

To Geo. C. Evans, Asst. Supt....	57 55	
Ether S. Foss, Asst. Supt.....	1,341 91	
Clarence H. Raymond, Clerk..	500 54	
Samuel D. Butterworth, In- specter .....	939 00	
Sundry persons for labor.....	10,877 90	
		<u>\$13,716 90</u>
Amount carried forward ..		

## SEWER MAINTENANCE—Continued.

Amount brought forward.....		\$13,716 90
To Appropriation for Engineering,	809 25	
Appropriation for Street Suu-		
dries.....	1,258 13	
Appropriation for Labor.....	300 26	
App. for Streets, Yard Labor.	89 21	
App. for Water Works.....	261 07	
App. for Smooth Paving Broad-		
way, etc.....	327 46	
	<hr/>	3,045 38
Hardware, Lumber, Etc.:		
To Adams Hardware & Paint Co .	64 08	
W. T. S. Bartlett.....	11 58	
Boutwell Bros.....	318 43	
Burnham & Davis.....	1,200 85	
Carroll Bros .....	2 40	
E. P. Flanders & Co .	972 23	
Henry C. Girard.....	3 60	
Chas. E. Howe & Co .....	551 18	
Amasa Pratt & Co.....	171 67	
Pratt & Forrest.....	183 69	
Thompson Hardware Co.....	45 75	
H. B. Shattuck & Son.....	42 37	
H. B. Tenby.....	450 00	
Wm. H. Wiggin.....	470 01	
	<hr/>	4,487 84
Painters Supplies:		
To Adams Hardware & Paint Co.	24 24	
Sylvester Bean.....	11 00	
C. B. Coburn & Co.....	176 54	
J. C. Bennett.....	15 60	
P. Dempsey & Co .....	5 50	
Easton Blacking Co.....	2 00	
	<hr/>	234 88
Rubber Boots and Repairing:		
To Boulger Shoe Co .....	49 00	
J. L. Chalifoux.....	48 00	
J. E. Gorman.....	33 00	
Geo. E. Hutchins.....	19 99	
	<hr/>	
Amounts carried forward .....	\$149 99	\$21,485 90

## SEWER MAINTENANCE—Continued.

Amounts brought forward.....	\$149 99	\$21,485 00
J. J. Lonergan.....	48 00	
E. Lavery.....	27 45	
J. Mountford.....	7 00	
M. Sullivan.....	81 00	
Sunlight Shoe Store.....	90 00	
	<hr/>	403 44
Pipe, Fittings, Labor, Etc. :		
To H. R. Barker Mfg. Co.....	2 65	
J. E. Drury.....	2 50	
J. D. Danahy.....	10 64	
Doherty Bros.....	282 29	
Edson Mfg. Co.....	322 61	
Farrell & Conaton.....	89 26	
Chas. E. Gee.....	328 24	
Hancock Inspirator Co.....	25 88	
F. L. Mealey.....	5 25	
Middlesex Machine Co.....	16 20	
W. A. Mack & Co.....	15 00	
J. W. Stewart.....	8 00	
Robt. A. Shailer.....	110 00	
John D. Turner.....	48 00	
Welch Bros.....	122 60	
	<hr/>	1,389 12
Stationery Printing and Etc. :		
To Dumas & Co.....	5 50	
Thos. H. Lawler.....	6 43	
G. C. Prince & Son.....	4 00	
C. E. Robinson.....	67 47	
S. Elizabeth Rend.....	4 00	
Union Printing Co.....	21 50	
	<hr/>	108 90
Lighting and Telephone :		
To Lowell Electric Light Corp....	4 66	
N. E. Tel. & Telg. Co.....	39 57	
	<hr/>	\$44 23
Amount carried forward.....		<hr/> \$23,430 69

## SEWER MAINTENANCE—Continued.

Amounts brought forward.....		\$23,430 69
Refreshments :		
To McLaughlin & Co.....	13 00	
Waverly Hotel .....	18 50	
	<hr/>	31 50
Carriage Hire, Transportation, Etc. :		
To Boston & Lowell Des. Ex. Co.	1 65	
Boston & Maine R. R.....	29 97	
American Ex. Co.....	4 95	
Morse Coach Co .....	4 00	
N. Y., N. H. & H. Railroad...	98	
J. H. Sparks.....	6 00	
Norris Livery Co .....	19 00	
	<hr/>	66 55
Carriages, Harnesses & Repairs :		
To A. H. Cluer .....	47 50	
Donovan Harness Co .....	50 75	
Ruth A Foss .....	5 00	
C. H. Hanson & Co .....	102 75	
F. B. Hill & Co .....	203 35	
D. W. Parker.....	25	
	<hr/>	409 60
Brick, Cement, Etc. :		
To Edward Cawley.....	78 99	
D. W. Horne & Son .....	434 47	
Lowell Coal Co.....	25 65	
W. E. Livingston Co.....	50 68	
D. J. Murphy....	8 40	
D. T. Sullivan .....	407 64	
E. A. & A. T. Smith .....	3 75	
Union Paving Co .....	74 79	
	<hr/>	1,084 37
Damages :		
To M. E. Cushing.....	7 50	
W. A. Ingham .	100 00	
Phileas Lanard.....	410 31	
	<hr/>	\$517 81
Amounts carried forward .....		<hr/> \$25,540 52



## SEWER MAINTENANCE—Continued.

Amount brought forward.....		\$25,540 52
Abatements :		
To Mary J. Dilworth.....	9 41	
Henry S. Pihl.....	11 42	
Daniel Starkey .....	11 42	
	<hr/>	32 25
Sundries :		
To J. W. Bennett Co.....	43 23	
Connelius Callahan.....	325 00	
John Callaghan.....	21 00	
F. W. Cheney & Co.....	81 00	
John Cross.....	37 50	
D. T. Finnegan .....	3 75	
Daniel Gage .....	22 61	
C. M. Holmes.....	50	
T. J. McDonald.....	49 75	
E. A. McQuade .....	3 00	
H. E. Noyes & Son.....	21 00	
M. Tallient.....	15 00	
F. A. Tuttle.....	495 13	
	<hr/>	1,118 47
		<hr/>
		\$26,691 24
Transferred to General Treasury...		
Fund.....		19 57
		<hr/>
		\$26,710 81
		<hr/>

## SEWER CONSTRUCTION.

Additional Appropriation.....	88,011 53	
Receipts from Sundry Departments.	442 75	
	<hr/>	
		\$88,454 28
		<hr/>

## SEWER COSTRUCTION—Continued.

## EXPENDITURES.

To Sundry Persons for labor as per pay-roll.....	66,372 63	
		\$66,372 63
To App. for Engineering.....	1,455 26	
" " Sewer Maintenance..	2,642 24	
" " Streets, Labor.....	99 13	
" " Streets, Sundries....	38 36	
" " Watering Streets....	148 00	
" " Water Works.....	31 92	
" " Borden St Sewer...	33 44	
		4,448 35
Hardware, Fittings, Etc. :		
To W. T. S. Bartlett.....	1 20	
Doherty Bros.....	964 53	
J. D. Danahy.....	32 68	
Farrell & Conaton.....	2 50	
E. P. Flanders & Co.....	7 50	
Middlesex Machine Co.....	65 25	
Welch Bros.....	11 74	
		1,085 40
Brick, Cement, Fuel, Etc. :		
To Burnham & Davis.....	133 83	
Edward Cawley.....	5,124 69	
Gumb Bros.....	17 55	
D. W. Horne & Son..	724 07	
Chas. E. Howe & Co.....	1,141 22	
Lowell Coal Co....	695 00	
Wm. E. Livingston Co.....	1,702 23	
D. J. Murphy.....	5 00	
Plaistow Brick & Terra Cotta Co	300 74	
Pratt & Forrest.....	582 96	
D. T. Sullivan.....	4,392 22	
Sherman & Martin	26 15	
Warren Bros ...	68 64	
Wm. H. Wiggin.....	119 55	
		15,033 85
Amount carried forward.....		\$86,940 23

## SEWER MAINTENANCE—Continued.

Amount brought forward.....		\$86,940 23
Sundries :		
To B. & M. R. R., transportaion.	754 95	
B. & M. R. R., labor & use of tools.....	636 23	
O. D. Wilder.....	53 00	
T. J. McDonald, oatmeal.....	37 50	
P. J. Riley.....	1 60	
Sherman & Tuttle. ....	17 50	
	<hr/>	1,500 78
		<hr/>
		88,441 01
Transferred to General Treasury Fund.....		13 27
		<hr/>
		\$88,454 28
		<hr/>
		<hr/>

## BORDEN STREET SEWER.

Balance Jan. 1, 1902.....	1,075 00	
Receipts from App. for Sewer Construction .....	33 44	
	<hr/>	1,108 44
		<hr/>
		<hr/>

## EXPENDITURES.

To Sundry persons for labor.....	733 38	
Appropriation for Engineering.	25 00	
Appropriation for Sewer Construction .....	33 97	
Appropriation for Sewer Maintenance .....	34 71	
Edward Cawley.....	271 88	
Wm. E. Livingston Co.....	9 50	
	<hr/>	1,108 44
		<hr/>
		<hr/>

## CHASE STREET SEWER.

Balance Jan. 1902.....	550 00	
	<hr/>	\$550 00
		<hr/>
		<hr/>

## CHASE STREET SEWER—Continued.

## EXPENDITURES.

To Sundry persons for labor.....	292 95	
Appropriation for Engineering.	12 00	
Appropriation for Sewer Main- tenance.....	75 90	
Appropriation for Sewer Con- struction..	22 70	
Edward Cawley.....	137 90	
Wm. E. Livingston Co.....	8 55	
	<hr/>	550 00
		<hr/>

## COURT STREET SEWER.

Balance Jan. 1, 1902 .....	535 17	
	<hr/>	535 17
		<hr/>

## EXPENDITURES.

To Sundry persons for labor ...	535 17	
	<hr/>	535 17
		<hr/>

## CENTRAL AND CHAPEL STREETS SEWER.

Balance Jan. 1, 1902 .....	573 63	
	<hr/>	573 63
		<hr/>

## EXPENDITURES.

To Sundry persons for labor .....	426 53	
Daniel T. Sullivan, brick.....	147 10	
	<hr/>	573 63
		<hr/>

## CENTRAL STREET SEWER.

Balance Jan. 1, 1902 .....	400 00	
	<hr/>	400 00
		<hr/>

## CENTRAL STREET SEWER—Continued.

## EXPENDITURES

Paid Sundry persons for labor.....	400 00	
	<u>          </u>	400 00
		<u>          </u>

## MEADOWCROFT STREET SEWER.

Balance Jan. 1, 1902.....	4,584 49	
	<u>          </u>	4,584 49
		<u>          </u>

## EXPENDITURES.

To Sundry persons for labor.....	3,354 15	
	<u>          </u>	3,354 15
Brick, Cement, Lime, Etc. :		
To Joseph Mullin.....	2 50	
D. T. Sullivan.....	62 50	
E. A. Wilson & Co.....	33 30	
	<u>          </u>	98 30

## Sundries :

To Appropriation, Streets, labor ..	37 50	
Appropriation, Streets, sundries	33 00	
Boston & Maine R. R. ....	212 35	
Connors Bros., on execution ..	561 86	
T. W. Collins, use of water ...	2 27	
Daniel Gage, wood.....	5 00	
Chas. E. Howe & Co., lumber.	280 06	
	<u>          </u>	1,132 04
		<u>          </u>
		\$4,584 49
		<u>          </u>

## WEST STREET OUTLET.

Balance Jan. 1, 1902.....	1,000 00	
	<u>          </u>	1,000 00
		<u>          </u>

## WEST STREET OUTLET—Continued.

## EXPENDITURES.

To Sundry persons for labor.....	438 87	
Lowell Coal Co., cement.....	54 65	
F. A. Mallory, stone .....	193 50	
		<hr/>
		687 02
Transferred to General Treasury		
Fund.....		312 98
		<hr/>
		\$1,000 00
		<hr/>

WESTERN AVENUE, SCHOOL AND ROCK STREETS  
SEWER.

Balance Jan. 1, 1902 .....	278 12	
Received of Jas. McLaughlin, over-		
draft.....	2 00	
Received of John Murphy, overdraft	25	
		<hr/>
		\$280 37
		<hr/>

## EXPENDITURES.

To Sundry persons for labor.....	274 17	
Staples Bros., Co .....	65	
E. A. Wilson.....	5 55	
		<hr/>
		\$280 37
		<hr/>

## STREETS, SALARIES.

Appropriation.....	3,900 00	
		<hr/>
		3,900 00
		<hr/>

## EXPENDITURES.

Paid Laforest Beals.....	2,000 00	
Geo. W. Hartwell, Asst. Supt.	1,399 46	
Clarence H. Raymond, Clerk	500 54	
		<hr/>
		3,900 00
		<hr/>

## STREETS, YARD LABOR.

Appropriation.....	12,000 00	
Receipts from sundry departments..	658 01	
	<u>          </u>	\$ 12,658 01

## EXPENDITURES.

Paid Sundry person for labor .....	10,798 39	
	<u>          </u>	10,798 39
Transferred to General Treasury Fund.....		1,859 62
		<u>          </u>
		\$12,658 01

## STREETS, LABOR.

Appropriation.....	91,000 00	
Receipts from Sundry Departments	707 79	
	<u>          </u>	\$91,707 79

## EXPENDITURES.

Paid Sundry persons for labor.....	85,943 29	
	<u>          </u>	85,943 29
Transferred to General Treasury...		5,764 50
Fund.....		<u>          </u>
		\$91,707 79

## STREETS, SUNDRIES.

Appropriation.....	45,250 00	
Receipts from Sundry Departments.	4,217 29	
	<u>          </u>	\$49,467 29



## STREETS, SUNDRIES—Continued.

## EXPENDITURES.

## Fuel :

To	J. J. Child Coal Co.....	173	54	
	D. W. Horne & Son.....	956	38	
	Joseph Mullin.....	24	00	
	Moore & Bennett Coal Co.....	120	89	
	D. T. Sullivan.....	90	40	
				<hr/>
				1,365 21

## Hay, Grain, etc.

To	Joseph Bowers.....	312	30	
	Coffey Bros.....	884	48	
	W. P. Foye & Co.....	26	25	
	B. W. Johnston.....	693	12	
	Wm. E. Livingston Co.....	25	25	
	L. C. Hall.....	438	55	
	T. J. McDonald.....	1,437	09	
	Joseph Mullin.....	205	23	
	H. E. Noyes & Son.....	3,688	80	
	D. W. Parker.....	19	30	
	J. B. Sabre.....	875	07	
	P. Tully.....	84	30	
	Vigeant, Dumas & Co.....	2,938	04	
	Paul Vigeant & Co.....	924	97	
	O. D. Wilder.....	598	24	
				<hr/>
				13,150 99

## Labor :

To	Sundry persons as per payrolls	2,809	55	
	Appropriation for Streets, Labor	229	86	
	Appropriation for Public Buildings, Labor.....	17	45	
	Appropriation for School Houses, Labor.....	41	66	
	Appropriation for Smooth Paving Broadway, etc.....	125	93	
				<hr/>
				3,224 45

## Engineering :

To	Appropriation for Engineering Services.....	3,377	25	3,377 25
				<hr/>

Amount carried forward..... \$21,117 90

## STREETS, SUNDRIES—Continued.

Amount brought forward..... \$21,117 90

## Carriages, Harnesses and Repairs :

To T. M. Bolton.....	22 95	
A. L. Butman.....	26 50	
Boutwell Bros.....	67 82	
Robt. Barris....	5 25	
A. H. Cluer.....	133 00	
E. P. Flanders & Co.....	2 50	
Josiah Gates & Sons.....	36 37	
C. H. Hanson & Co.....	90 80	
F. B. Hill & Co.....	168 70	
H. J. O'Dowd.....	358 00	
D. W. Parker.....	101 90	
Donovan Harness Co.....	62 40	
	<hr/>	1,076 19

## Lumber :

To Burnham & Davis.....	418 21	
C. M. Holmes.....	7 20	
C. E. Howe & Co.....	1,307 06	
Amasa Pratt Co.....	719 54	
Pratt & Forrest.....	143 56	
Wm. H. Wiggin.....	42 24	
	<hr/>	2,637 81

## Hardware, Tools, Etc. :

To Adams Hardware & Paint Co..	4 88	
Archibald Wheel Co.....	22 50	
Sylvester Bean... ..	1 80	
Boutwell Bros.....	845 38	
Buffalo, Pitts Co.....	92 35	
Owen E. Brennan.....	2 71	
F. W. Cheney & Co.....	2 50	
E. P. Flanders & Co.....	1,198 68	
Good Roads Machinery Co....	582 80	
Chas. T. Haskell.....	7 04	
Geo. A. Levens.....	254 80	
W. A. Mack & Co.....	37 00	
W. McLarney & Co.....	2 50	
New England Broom Co.....	967 00	
H. B. Shattuck & Son.....	24 00	
C. L. Stanley.....	4 13	
	<hr/>	

Amounts carried forward..... \$4,050 07      \$24,831 90

## STREETS, SUNDRIES—Continued.

Amounts brought forward .....	\$4,050 07	\$42,831 90
Thompson Hardware Co.....	70 83	
Upton & Gilman.....	70	
	<hr/>	4,121 60
Gravel, Cement, Concrete, Edgestone, Paving, Etc. :		
To Coburn & Crosby .....	46 80	
Gumb Bros.,....	14 00	
W. E. Livingston Co .....	6 15	
F. A. Malorey .....	5,859 44	
Merrimack Paving Co .....	302 11	
D. J. Murphy .....	9 55	
E. A. & A. T. Smith.....	3,800 62	
Staples Bros., Co. ....	176 93	
Union Paving Co.....	290 79	
	<hr/>	10,506 39
Pipe, Fittings, Labor, Etc. :		
To Appropriation for Water Works	12 51	
H. R. Barker Mfg. Co.....	18 24	
Challenge Tube Cleaner Co....	6 00	
J. D. Danahy .....	120 40	
Doherty Bros., .....	70 35	
Farrell & Conaton.....	39 10	
C. E. Gee .....	269 32	
A. P. Knapp.....	4 75	
W. A. Mack & Co.....	6 00	
Middlesex Machine Co .....	22 86	
J. W. Stewart.....	25 60	
Scannell & Wholey.....	54 90	
Welch Bros .....	15 73	
	<hr/>	665 76
Painters Supplies :		
To Adams Hardware & Paint Co..	42 84	
Sylvester Bean.....	8 30	
J. C. Bennett.....	31 20	
Boston Engineers Supply Co..	8 48	
C. B. Coburn & Co .....	272 81	
A. L. Kittredge & Co .....	1 20	
Mystic Oil Co.....	6 25	
W. A. Wood Co.....	77 12	
	<hr/>	448 20
Amount carried forward.....		\$40,573 85

## STREET, SUNDRIES—Continued.

Amount brought forward .....		\$40,573 85
Rubber Boots and Repairing :		
To J. E. Gorman.....	3 75	
E. Lavery.....	1 00	
	<hr/>	4 75
Stationery, Printing, Etc. :		
To Dumas & Co.....	20 50	
T. H. Lawler.....	12 15	
Municipal Engineering Co....	2 00	
G. C. Prince & Son.....	13 80	
C. E. Robinson .....	143 97	
Sampson, Murdock & Co .....	6 00	
Smith Premier Typewriter Co.	49 50	
Union Printing Co .....	11 25	
Wyckoff, Seamans & Benedict..	3 50	
	<hr/>	262 67
Refreshments :		
To Merrimack House....	28 00	
McLaughlin & Co... ..	10 00	
Waverly Hotel.....	28 00	
	<hr/>	66 00
Carriage Hire, Transportation, Teaming, Etc. :		
To American Express Co .....	4 63	
Appropriation for Watering		
Streets.....	720 00	
B. G. Brown.....	125 00	
A. D. Boynton .....	56 00	
B. & M. Railroad.....	208 01	
Jacques Boisvert .....	18 00	
A. H. Blake.....	110 25	
Edward Cogger.....	24 00	
Azarie Choquette.....	24 00	
C. H. Clapp & Co. ....	22 00	
E. Duren .....	40 00	
Patrick Cogger.....	65 50	
G. F. Fall. ....	97 00	
J. A. Gregoire.....	18 00	
C. A. Gilman.....	20 00	
Willis Hobbs.....	48 00	
	<hr/>	
Amounts carried forward.....	\$1,600 39	\$40,907 27

## STREETS, SUNDRIES—Continued.

Amounts brought forward.....	\$1,600 39	\$40,907 27
E. S. Howe .....	78 75	
Joseph Loiselle.....	42 00	
C. H. Hanson.....	88 40	
Siméon Lagassé.....	8 00	
F. O. Marshall.....	112 00	
Morse Coach Co. ....	15 00	
Manchester & Concord Ex. Co.	3 38	
Norris Livery Co.....	10 00	
N. Y., N. H. & H. R. R. Co.	18 11	
N. Y. & B. Despatch Ex. Co.	85	
G. H. McNabb.....	20 00	
Pratt & Forrest.....	30 00	
J. A. Simpson.....	24 00	
J. H. Sparks.....	62 00	
E. A. & A. T. Smith.....	36 00	
H. W. Tarbell.....	30 00	
T. J. Underwood.....	74 25	
O. D. Wilder.....	72 00	
D. W. Parker .....	9 25	
W. H. Wiggin.....	48 00	
		2,382 38

## Sundries :

To Appropriation for Public Build- ings, Labor.....	3 06	
Appropriation for Public Build- ings, Sundries.....	3 40	
Appropriation for Sewer Main- tenance .....	124 74	
Appropriation for Water Works	202 08	
E. C. Andrews & Co.....	4 00	
J. C. Bennett.....	18 68	
Margaret Cahill.....	125 00	
A. H. Cluer.....	33 50	
C. B. Coburn & Co .....	5 72	
John Cross.....	7 50	
C. A. Daly.....	1 50	
B. A. Cluff .....	10 95	
H. P. Doherty.....	46 00	
Mary E. Doherty.....	50 00	

Amounts carried forward.....	\$636 13	\$43,289 65
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## STREETS, SUNDRIES—Continued.

Amounts brought forward.....	\$636 13	\$43,289 65
J. A. Dow.....	24 00	
Donovan Harness Co.....	1 75	
Eastern Blacking Co.....	6 00	
Family Supply Co.....	60	
J. A. Fournier.....	85 94	
A. F. Frosts Steam Laundry...	29 68	
G. F. Fall .....	5 00	
Greenwood Bros.....	27 00	
Daniel Gage.....	32 02	
H. C. Girard.....	50	
C. H. Hanson & Co.....	2,519 90	
Ida L. Hartwell.....	29 50	
Willis Hobbs.....	8 00	
C. M. Holmes.....	22 00	
G. E. Hutchins.....	12 75	
James Hickey .....	4 50	
Keefe Bros. ....	1 50	
L. S. Kimball.....	13 50	
Knowles Scale Works.....	2 90	
Lowell Electric Light Corp...	326 36	
Lowell Gas Light Co.....	63 14	
T. G. McGannon.....	50 00	
F. A. Malloreay.....	1,092 68	
W. A. Mack & Co. ....	6 53	
C. H. May & Co.....	2 34	
Middlesex Machine Co.....	72	
R. T. Mower.....	4 50	
F. E. McNabb.....	6 55	
N. E. Tel. & Tel. Co.....	94 08	
G. A. Nelson.....	4 50	
Norris Livery Co.....	15 00	
Catherine O'Connor.....	125 00	
Henry Reynolds.....	3 00	
U. S. Richards.....	22 00	
Spencer & Co.....	20 40	
H. W. Sheffield.....	1 50	
W. A. Sherman.....	2 00	
Simpson & Rowland.....	13 33	
A. H. Sanborn .....	125 00	
Amounts carried forward: .....	\$5,441 80	\$43,289 65

## STREETS, SUNDRIES—Continued.

Amounts brought forward .....	\$5,441 80	\$43,289 65
J. H. Sparks.....	4 00	
H. Thompson.....	8 00	
F. A. Tuttle.....	344 09	
A. S. Taylor.....	1 50	
Town of Dracut.....	33 50	
Welch Bros.....	13 45	
C. R. Wood.....	7 50	
H. F. Whiting.....	2 10	
	<hr/>	5,855 94
		<hr/>
		\$49,145 59
Transferred to General Treasury...		
Fund.....		321 70
		<hr/>
		\$49,467 29
		<hr/>
		<hr/>

## MACADAMIZING CANTON STREET.

Balance Jan. 1, 1902.....	1,521 03	
Received from Henry Fogg, over-		
draft .....	3 50	
	<hr/>	1,524 53
		<hr/>

## EXPENDITURES.

To Sundry persons for labor.....	831 20	
Joseph Mullin, for coal .....	30 06	
	<hr/>	861 26
Transferred to General Treasury		
Fund.....		663 27
		<hr/>
		\$1,524 53
		<hr/>
		<hr/>

## MACADAMIZING CHAPEL AND KEENE STREETS.

Balance Jan. 1, 1902.. .....	4,169 80	
	<hr/>	\$4,169 80
		<hr/>



## MACADAMIZING STREETS—Continued.

## EXPENDITURES.

To Sundry persons for labor . . . . .	1,541 85	
	<hr/>	1,541 85
Transferred to General Treasury Fund . . . . .		2,627 95
		<hr/>
		<u>\$4,169 80</u>

## MACADAMIZING GIBSON STREET.

Balance Jan. 1, 1902 . . . . .		\$1,851 29
Received from Luke O'Connell, over- draft . . . . .	2 00	
Received from D. Murphy, overdraft	2 00	
	<hr/>	4 00
		<hr/>
		<u>\$1,855 29</u>

## EXPENDITURES.

To Sundry persons for labor . . . . .	611 95	
	<hr/>	611 95
Transferred to General Treasury Fund . . . . .		1,243 34
		<hr/>
		<u>\$1,855 29</u>

## MACADAMIZING NESMITH AND ROGERS STREETS.

Balance Jan. 1, 1902 . . . . .	6,491 70	
	<hr/>	6,491 70
Received of John Cavanaugh, over- draft . . . . .	8 00	
Received of P. O'Connell for over- draft . . . . .	4 20	
	<hr/>	12 20
		<hr/>
		<u>\$6,503 90</u>

## MACADAMIZING STREETS—Continued.

## EXPENDITURES.

To Sundry persons for labor.....	1,706 70	
Appropriation for Sewer Construction.....	17 38	
Appropriation for Sewer Maintenance.....	11 78	
Edward Cawley, pipe.....	87	
Joseph Mullin, coal.....	47 33	
Mass. Broken Stone Co., stone.	146 42	
	<hr/>	1,930 48
Transferred to General Treasury... Fund.....		4,573 42
		<hr/>
		\$6,503 90
		<hr/>

## PAVING ARCH STREET.

Balance January 1, 1902.....	426 26
	<hr/>

## EXPENDITURES.

To Sundry Persons for Labor.....	319 78	
Appropriation for Streets, Sundries .....	106 48	
	<hr/>	
		\$426 26
		<hr/>

SMOOTH-PAVING BROADWAY AND  
SUFFOLK STREET.

Balance January 1, 1902.....		53,416 06
Received of Sundry Persons, Overdrafts.....	6 51	
Received of Sundry Departments...	453 39	459 90
	<hr/>	
		\$53,875 96
		<hr/>

## SMOOTH-PAVING, STREETS—Continued.

## EXPENDITURES.

To Sundry Persons for Labor.....	1,843 69	
Appropriation for Engineering.....	918 59	
Merrimack Paving Co.....	48,998 07	
E. A. & A. T. Smith.....	1,442 17	
Appropriation for Sewer Main- tenance.....	85 13	
Appropriation for Sewer Con- struction.....	177 94	
Doherty Bros.....	41 50	
Edward Cawley.....	40 82	
F. A. Malorey.....	10 50	
D. T. Sullivan.....	21 00	
Lake Althea Granite Quarries..	26 25	
W. E. Livingston Co.....	52 32	
C. H. Hanson & Co.....	117 00	
Azarie Choquette.....	64 00	
		53,838 98
Transferred to General Treasury Fund.....		36 98
		<u>\$53,875 96</u>

CHANGING LINES OF MERRIMACK AND  
PAWTUCKET STREETS.

Balance January 1, 1902.....	531 00
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## EXPENDITURES.

To Sundry Persons for Labor .....	65 67	
Appropriation for Streets, Labor	13 25	
Appropriation for Streets, Sun- dries.....	27 08	
Charlotte P. Kitson .....	425 00	
		531 00

## WIDENING ANDOVER STREETS.

Appropriation.....	2,219 64	
Amount of Bills of H. B. Coburn, returned to Treasury.....	2,200 00	
		<u>\$4,419 64</u>

## EXPENDITURES.

To H. B. Coburn on execution....	4,382 76	
		4,382 76
Transferred to General Treasury Fund.....		36 88
		<u>\$4,419 64</u>

## MACADAMIZING AMES AND WATSON STREETS

Appropriation.....	\$2,236 69	
		<u>\$2,236 69</u>

## EXPENDITURES.

To Sundry persons for labor.....	1,243 30	
Courier-Citizen Co.....	10 50	
Daily News Co.....	13 65	
Lowell Daily Mail.....	10 50	
D. W. Horne & Son.....	71 42	
Mass. Broken Stone Co.....	642 74	
		1,992 11
Transferred to General Treasury Fund.....		244 58
		<u>\$2,236 69</u>

## MACADAMIZING AGAWAM STREET.

Appropriation.....	4,243 34	
		<u>\$42,243 34</u>

## MACADAMIZING, AGAWAM STREET—Continued.

## EXPENDITURES.

To Sundry Persons for labor....	2,274 44	
Edward Cawley.....	12 00	
D. W. Horne & Son .....	46 50	
Joseph Mullin .....	30 00	
Lowell Sun .....	10 08	
Sunday Telegram.....	2 37	
Mass. Broken Stone Co.....	857 80	
E. A. & A. T. Smith .....	289 06	
O. D. Wilder. ....	67 50	
		3,548 75
Transferred to General Treasury Fund.....		653 59
		<u>\$4,243 34</u>

## EXTENSION OF B STREET.

Appropriation ....	3,300 00	
		<u>\$3,300 00</u>

## EXPENDITURES.

To Sundry persons for labor.....	1,303 08	
Charles E. Howe & Co.....	46 24	
Geo. Parker.....	1,218 38	
Henry E. Swan.....	618 94	
		3,186 64
Transferred to General Treasury Fund.....		113 36
		<u>\$3,300 00</u>

## WIDENING AND GRADING PARKER STREET.

Appropriation.....	4,850 00	
		<u>\$4,850 00</u>

## WIDENING AND GRADING, PARKER STREET—Continued.

## EXPENDITURES.

To Sundry persons for labor.....	1,213 13	
Appropriation for Engineering	148 36	
J. D. Danahy .....	69 72	
A. S. Clark.....	48 96	
Paul T. Durrell.....	80 82	
James Hickey .....	298 50	
G. W. Marshall.....	550 00	
W. H. O'Brien.....	18 00	
A. E. M. E. & S. E. Parker..	54 84	
M. B. Randlett.....	41 60	
E. M. Robinson.....	590 00	
C. F. Taylor .....	150 00	
W. H. Wiggin .....	59 33	
	<hr/>	3.323 26
Balance carried forward to 1903....		1,526 74
		<hr/>
		<u>\$4,850 00</u>

## PAVING KIRK, LEE, AIKEN, PAIGE, CHARLES AND WESTFORD STREETS.

Appropriation.....	38,950 00	
	<hr/>	<u>\$38,950 50</u>

## EXPENDITURES.

To Sundry persons for labor .....	1,135 03	
Appropriation for Engineering.	640 83	
Courier-Citizen Co.....	12 50	
Daily News Co.....	17 55	
Lowell Daily Mail .....	1 50	
	<hr/>	
Amount carried forward .....	\$1,807 41	

PAVING KIRK, LEE, AIKEN, PAGE, CHARLES AND WEST-  
FORD STREETS—Continued.

Amount brought forward.....	\$1,807 41	
Lowell Sun .....	10 50	
Sunday Telegram.....	5 91	
E. A. & A. T. Smith.....	1,031 41	
Merrimack Paving Co.....	16,310 23	
H. W. Tarbell. ....	42 70	
Union Paving Co. ....	17,861 69	
	<hr/>	37,069 85
Transferred to General Treasury...		
Fund.....		1,880 15
		<hr/>
		\$38,950 00
		<hr/>

## PAVING MERRIMACK AND PLEASANT STREETS.

Appropriation.....	23,155 00	
	<hr/>	\$23,155 00
		<hr/>

## EXPENDITURES.

To Sundry persons for labor.....	64 59	
Appropriation for Engineer's nig.	223 08	
Courier-Citizen Co .....	17 92	
Daily News Co. ....	15 92	
Sunday Telegram .....	8 38	
Lowell Daily Mail .....	12 25	
Lowell Sun.....	12 50	
E. A. & A. T. Smith .....	248 97	
Merrimack Paving Co.....	455 52	
Warren Bros. Co.....	15,652 95	
	<hr/>	16,712 08
Balance carried forward to 1903		6,442 92
		<hr/>
		\$23,155 00
		<hr/>



## STREETS—Continued.

## REPAIR OF CENTRAL BRIDGE.

Appropriation.....	2,500 00	
	<hr/>	<u>\$2,500 00</u>

## EXPENDITURES.

To Sundry persons for labor.....	149 94	
H. B. Shattuck & Son .....	63 60	
	<hr/>	213 54
Balance carried forward to 1903 ....		2,286 46
		<hr/>
		<u>\$2,500 00</u>

## SUPPLY DEPARTMENT, SALARIES AND LABOR.

Appropriation.....	5,300 00	
Additional Appropriation.....	11 52	
	<hr/>	<u>\$5,311 52</u>

## EXPENDITURES.

To Fred H. Rourke, Agent .....	2,400 00	
Sundry persons, Inspectors.....	1,494 41	
Sundry persons, Clerks .....	1,417 11	
	<hr/>	5,311 52
		<hr/>

## SUPPLY DEPARTMENT, SUNDRIES.

Appropriation.....		875 00
Additional Appropriation.....		33 19
		<hr/>
		908 19
Received from sundry Departments	32 00	
“ “ N. E. Tel. & Tel. Co	11 77	43 77
	<hr/>	<hr/>
Amount carried forward.....		\$951 96

## SUPPLY, DEPARTMENT SUNDRIES—Continued.

Amount brought forward.....		\$951 96
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## EXPENDITURES.

## Stationery, Printing, Etc. :

To Buckland Printing Co.....	3 00	
Courier-Citizen Co.....	45 00	
Daily News Co.....	6 00	
J. M. Fellows.....	3 00	
Thos. H. Lavler.....	12 25	
Library Bureau.....	43 00	
G. C. Prince & Son.....	57 70	
Sampson, Murdock & Co.....	3 00	
F. A. M. Tobin.....	17 20	
	<hr/>	190 15

## Carriages, Harnesses and Repairing :

To Donovan Harness Co.....	16 35	
Fay Brothers & Hosford.....	15 30	
C. H. Hanson & Co.....	28 00	
F. B. Hill Co.....	45 15	
H. J. O'Dowd.....	100 00	
Sawyer Carriage Co.....	1 46	
V. C. Salois.....	2 40	
	<hr/>	208 66

## Keeping Horses :

To C. H. Hanson & Co.....	3 00	
P. F. McNulty.....	257 69	
	<hr/>	260 69

## Shoeing Horses :

To J. J. Donnelly.....	3 40	
Henry Reynolds.....	29 25	32 65
	<hr/>	<hr/>
		692 15

## Carriage Hire, Transportation and Sundries :

To Adams Hardware & Paint Co..	50	
Automatic Dime Stamp Co....	50	
American Express Co.....	65	
	<hr/>	<hr/>
Amounts carried forward.....	\$1 65	\$692 15

## SUPPLY, SUNDRIES—Continued.

Amounts brought forward.....	\$ 1 65	\$692 15
Boston & Maine R. R.....	60 50	
Geo. H. Gage.....	1 00	
C. H. Hanson & Co.....	1 75	
J. H. Kelley.....	23 96	
A. E. Martel.....	34 00	
R. T. Mower.....	2 00	
T. J. McDonald.....	50	
Morse Coach Co.....	2 00	
N. E. Tel. & Tel. Co.....	82 87	
Fred H. Rourke.....	47 50	
W. U. Tel. Co.....	2 08	
		259 81
		<u>\$951 96</u>

## WATERING STREETS,

Appropriation.....	14,700 00	
Receipts from Sundry Departments	953 35	
		<u>\$15,653 35</u>

## EXPENDITURES.

Paid Sundry persons for labor.....	4,319 58	
Appropriation for Water Works	92 11	
Appropriation for Streets, Sun- dries.....	304 59	
		4,716 28
Hardware, Pipe, Fittings, Etc. :		
To H. R. Barker Mfg. Co.....	34 18	
Boutwell Bros.....	61 14	
Doherty Bros.....	16 83	
J. D. Danahy.....	23 60	
E. P. Flanders & Co.....	9 00	
Welch Bros.....	137 88	
		282 63
Use of Horses and Teaming :		
To Appropriation, for Streets, Sundries.....	2,197 78	
C. H. Hanson & Co.....	1 50	2,199 28
Amount carried forward.....		<u>\$7,198 19</u>

## WATERING STREETS—Continued.

Amount brought forward..... \$7,198 19

## Carriages, Harnesses and Repairing :

To App. Streets, Yard Labor....	422 75	
A. H. Cluer.....	111 80	
Donovan Harness Co .....	39 60	
C. H. Hanson & Co.....	15 00	
H. J. O'Dowd.....	45 60	
	<hr/>	634 75

## Water and Service :

To App. for Water Works.....	1,291 78	
American Car Sprinkler Co...	4,500 00	
	<hr/>	5,791 78

## Sundries :

To App. for Engineering.....	198 50	
App. for Sewer Maintenance..	23 03	
App. for Streets, Yard Labor.	146 05	
App. for Streets, Sundries....	41 85	
Easton Blacking Co.....	2 00	
Dumas & Co .....	10 00	
C. H. Hanson & Co.. ....	24 00	
Lowell Electric Light Corp...	70 13	
W. E. Livingston Co... ..	3 10	
C. E. Robinson .....	35 47	
U. S. Richards.....	15 50	
	<hr/>	569 63

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\$14,194 35

Transferred to General Treasury  
Fund.....

1,459 00

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\$15,653 35

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## WATER WORKS.

Balance Jan. 1, 1902.....	18,309 60	
Received from Sundry persons for water rates, service pipe, etc .....	197,256 58	
	<hr/>	\$215,566 18

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## WATER, WORKS—Continued.

## EXPENDITURES.

## Salaries :

To Frank L. Weaver, Pres. ....	400 00	
August Fels. ....	400 00	
Michael J. Dowd. ....	400 00	
Herbert C. Taft. ....	400 00	
Robt. J. Thomas, Supt. ....	1,800 00	
	<hr/>	3,400 00
Paid Sundry persons for labor ....	69,648 71	
	<hr/>	69,648 71
To Appropriation for City Debt, in- installment on note ....	31,600 00	
	<hr/>	31,600 00

## Interest :

To Commonwealth of Massachusetts	1,800 00	
Merrimack River Savings Bank, Manchester, N. H. ....	150 00	
Roundout Savings Bank, Kings- ston, N. Y. ....	1,500 00	
Lowell Institution for Savings ...	1,909 00	
B. U. French, Treas. ....	600 00	
Mary S. Tilton, Trustee ....	300 00	
Estabrook & Co. ....	150 00	
Sundry persons ....	43,000 00	
	<hr/>	49,409 00
Paid sundry persons refund on water rate. ....	1,432 18	
	<hr/>	1,432 18

## Fuel :

To Edward Cawley. ....	328 99	
J. J. Child Coal Co. ....	8,398 12	
D. W. Horne & Son. ....	3,578 63	
W. A. Jepson. ....	32 04	
W. E. Livingston Co. ....	4,216 33	
Moore & Bennett Coal Co. ....	380 09	
Parker Coal & Wood Co. ....	18 50	
Daniel T. Sullivan. ....	149 70	
Sturtevant Coal Co. ....	131 60	
	<hr/>	

Amount carried forward .. . \$172,723 89

## WATER, WORKS—Continued.

Amount brought forward.....		\$172,723 89
Pipe, Hydrants, Meters, Fittings, Etc :		
To American Steam Gauge Co.....	7 00	
Ashton Valve Co. ....	132 71	
Barbour, Stockwell Co.....	2 75	
H. R. Barker Mfg. Co. ....	8 27	
Peter Barclay Mfg. Co. ....	50 60	
Boutwell Bros.....	22 10	
G. F. Blake Mfg. Co.....	5 47	
Builders' Iron Foundry.....	1,173 20	
Chapman Valve Mfg. Co.....	54 07	
Coffin Valve Co.....	176 50	
A. W. Chesterton & Co.....	70 58	
Charles A. Claflin Co.....	70 80	
Carroll Bros.....	43 58	
M. T. Davidson.....	10 00	
J. E. Drury.....	165 39	
Doherty Bros.....	91 71	
M. J. Drummond & Co.....	3,467 34	
Ericson Electric Equipment Co.	33 42	
Farrell & Conaton.....	158 80	
G. W. Fifield.....	28 00	
W. D. Forbes & Co.....	11 15	
G. P. Green.....	1 84	
Hersey Mfg. Co.....	435 70	
A. A. Hunt.....	12 65	
Jones, Gage Co.....	10 00	
Jenkins Bros.....	42 02	
Kennedy Valve Mfg. Co.....	76 54	
Knowles Steam Pump Works..	129 60	
Locke Regulator Co.....	6 65	
Lowell Machine Shop.....	27 41	
Lead Lined Iron Pipe Co.....	2,456 88	
Ludlow Valve Mfg. Co.....	958 29	
W. A. Mack & Co.....	207 94	
Middlesex Machine Co.....	58 38	
National Meter Co.....	3,263 55	
Neptune Meter Co.....	1,680 40	
A. F. Nichols.....	28 11	
New England Roller Grate Co.	28 44	
Norwell Engineering Co.....	21 00	
Amounts carried forward.....	\$15,228 84	\$172,723 89

## WATER WORKS—Continued.

Amounts brought forward.....	\$15,228 84	\$172,723 89
A. T. Pierce .....	50 00	
Perrin, Seamans & Co.....	115 90	
Rensselaer Mfg. Co ... ..	316 50	
Scannell & Wholey.....	801 76	
Scott & O'Day.....	11 97	
Sumner & Goodwin Co.....	20 00	
A. P. Smith Mfg. Co.....	416 00	
Thomson Meter Co.....	506 86	
Union Iron Foundry.....	117 55	
Union Water Meter Co.....	129 70	
Walworth Mfg. Co.....	30 31	
Waterbury Tool Co....	10 00	
Welch Bros.....	45 50	
Henry R. Worthington .....	146 32	
D. H. Wilson & Co.....	45 55	
	<hr/>	17,992 76
Hardware, Etc. :		
To Adams Hardware & Paint Co..	2 50	
American Bolt Co.....	43 23	
W. T. S. Bartlett .....	29 23	
Boutwell Bros.....	87 78	
Harold S. Bond & Co.....	70 35	
E. P. Flanders & Co .....	100 21	
H. B. Shattuck & Son.....	62 81	
Thompson Hardware Co.....	67 77	
	<hr/>	463 88
Lumber :		
To Burnham & Davis.....	59 67	
C. E. Howe & Co .....	44 62	
Pratt & Forrest .....	89 03	
Amasa Pratt & Co .....	91 00	
Wm. H. Wiggin. ....	221 24	
	<hr/>	505 56
Oil, Paint, Packing, Etc. :		
To Sylvester Bean.....	36 59	
Boston Engineers Supply Co...	924 56	
A. W. Chesterton & Co .....	262 43	1,223 58
	<hr/>	
Amounts carried forward .....	1,223 58	\$191,686 09



## WATER, WORKS—Continued.

Amounts brought forward..... \$1,223 58 \$191,686 09

C. B. Coburn & Co .....	444 46
Crystal Oil Co .....	10 50
P. Dempsey & Co .....	75
Eagle Oil & Supply Co .....	97 74
Edson Mfg. Co .....	21 60
Garlock Packing Co .....	144 50
Gould Packing Co .....	8 37
Josiah Gates & Son. ....	14 92
Geo. E. Hutchins .....	24 00
Jenkins Bros .....	103 68
Keystone Lubricating Co .....	185 20
A. L. Kittredge & Co .....	51 40
Thersa Kittredge .....	11 50
Knowlton Packing Co .....	24 06
G. W. Knowlton .....	32 90
G. W. Knowlton Rubber Co...	7 60
Leonard & Ellis .....	18 20
National Paint & Varnish Co..	45 05
O'Brien Bros .....	2 50
J. H. Martin .....	2 18
Perrin, Seamans & Co .....	18 00
W. H. Place Mfg. Co .....	37 75
Rice & Co .....	25 00
C. G. Read .....	7 20
Talbot Dyewood & Chemical Co	1 84
Walter Owen Teague .....	26 70
Valvoline Oil Co .....	107 28
W. A. Wood Co .....	18 03
White Star Packing Co .....	11 00

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2,727 49

## Stationery, Printing and Advertising, Etc. :

To F. P. Bridges & Co .....	7 50
Buckland Printing Co .....	14 00
Butterfield Printing Co .....	123 30
Courier-Citizen Co .....	17 05
Daily News Co .....	8 45
Dumas & Co .....	118 00
Engineering Record .....	5 00

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Amounts carried forward..... \$293 30 \$194,413 58

## WATER, WORKS—Continued.

Amounts brought forward.....	\$293 30	\$194,413 58
Engineering News Pub. Co....	5 00	
J. M. Fellows .....	50	
Fire and Water.....	6 00	
Libby Printing Co .....	27 50	
Thomas H. Lawler.....	9 70	
Lawler Printing Co.....	27 50	
Library Bureau.....	130 22	
Lowell Daily Mail....	6 00	
Lowell Sun.....	10 00	
Lepine & Co.....	5 00	
G. C. Prince & Son.....	21 45	
F. A. M. Tobin.....	94 30	
Sampson, Murdock & Co....	9 00	
Tilton & Co.....	80	
Sunday Telegram.....	2 85	
Union Printing Co.....	77 00	
M. G. Wight & Co.....	23 50	
		749 62
Mason Work and Material;		
To John Carr & Sons.....	30 00	
P. Conlon.....	493 45	
J. Jalbert .....	822 04	
J. Jennings.....	150 00	
W. E. Livingston & Co.....	69 88	
E. A. & A. T. Smith.....	482 06	
Staples Bros. Co .....	2,304 14	
D. T. Sullivan.....	414 12	
		4,765 69
Hay, Grain, Etc.:		
To Ame & Co.....	11 25	
Daniel Gage.....	7 59	
M. W. Hale.....	50	
T. J. McDonald .....	435 03	
H. E. Noyes & Son.....	145 93	
J. B. Sabre .....	24 20	
		624 50
Amount carried forward.....		\$200,553 39

## WATER, WORKS—Continued.

Amount brought forward..... \$200,553 39

## Carriages, Harnesses and Repairing :

To E. P. Bryant .....	11 95	
T. M. Bolton.....	18 25	
Robt. Barris.....	11 75	
A. H. Cluer.....	2 50	
Donovan Harness Co.....	100 76	
F. B. Hill & Co.....	105 80	
Sawyer Carriage Co.....	98 05	
	<hr/>	349 06

## Shoeing Horses, Lighting and Telephone :

To S. A. Shattuck....	156 77	
Lowell Gas Light Co.....	108 32	
N. E. Tel. & Tel. Co.....	291 85	
	<hr/>	556 94

## Insurance :

To H. C. Church.....	300 00	
Thos. C. Lee & Co.....	190 00	
	<hr/>	490 00

## Expenses of Water Board :

To J. W. Crawford.....	77 05	
J. P. Donohoe & Co.....	3 20	
F. A. Donohoe & Co.....	7 60	
Page Catering Co.....	39 80	
Richardson's Hotel.....	56 45	
	<hr/>	184 10

## Transportation, Carriage Hire, Etc. :

To American Express Co.....	24 60	
Boston & Lowell Des. Ex. Co.	6 70	
B. & M. R. R. ....	508 83	
Philip P. Conners.....	50 63	
Edward Cawley.....	177 42	
E. Duren .....	378 25	
Geo. F. Fall .....	36 00	
C. H. Hanson & Co.....	558 29	
Wm. E. Livingston Co .....	194 46	
	<hr/>	

Amounts carried forward.....	\$1,935 18	\$202,133 49
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## WATER, WORKS—Continued.

Amounts brought forward.....	\$1,935 18	\$202,133 49
F. O. Marshall.....	2 00	
Manchester & Concord Ex. Co.	1 30	
Joseph Mullin.....	110 60	
Morse Coach Co.....	1 00	
N. Y. & B. Des. Ex. Co.....	9 05	
N. Y., N. H. & H. R. R. Co..	112 13	
C. P. Salls.....	176 90	
J. H. Sparks.....	55 50	
D. T. Sullivan.....	81 47	
		2,485 13

## Sundries :

To Appropriation for Engineering	1,379 17	
Appropriation for School		
Houses, "Labor".....	15 00	
Boulger Shoe Co.....	12 00	
Chas. P. Conant.....	378 82	
J. Cross.....	2 00	
J. J. Cluin.....	1 00	
W. & B. Douglass.....	1 75	
E. A. & N. M. Douglass.....	15 00	
Derby & Morse.....	642 66	
Wm. B. Goodwin.....	1 95	
E. Howard Clock Co.....	6 00	
J. B. Goodwin.....	4 95	
M. W. Hale.....	25	
John J. Lee.....	90	
Alvin Lawrence.....	3 00	
C. F. Morse.....	173 24	
O'Donnell & Gilbride Co.....	6 35	
Proprietors Locks & Canal....	290 00	
O'Brien Bros.....	2 50	
G. G. Read.....	5 96	
A. L. Ready & Son.....	8 00	
J. Murkland & Son.....	8 91	
Town of Chelmsford.....	51 80	
Tucke & Parker.....	51 93	
F. A. Tuttle.....	24 88	
M. Sullivan.....	28 00	
A. J. W. Sweet.....	63 75	

Amounts carried forward.....	\$3,179 77	\$204,618 62
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## WATER, WORKS—Continued.

Amounts brought forward.....	\$3,179 77	\$204,618 62
E. G. Twohey.....	284 85	
Whittet & Co.....	174 60	
Henry F. Whiting .....	14 68	
Edward A. Walsh.....	121 00	
Young Bros.....	7 47	
	<hr/>	3,782 37
		<hr/>
		208,400 99
Balance carried forward to 1903....		7,165 19
		<hr/>
		\$215,566 18
		<hr/>

## REPAIRING CITY STABLES.

Balance Jan. 1, 1902. ....	1,230 85	
	<hr/>	\$1,230 85

## EXPENDITURES.

Paid Sundry persons for labor.....	201 06	
	<hr/>	201 06
Hardware and Lumber :		
To Boutwell Bros .....	40	
W. A. Snow & Co.....	227 00	
Thompson Hardware Co.....	3 25	
W. H. Wiggin .....	248 37	
	<hr/>	479 02
Sundries :		
To H. R. Barker Mfg. Co.....	2 90	
Boston & Maine R.....	80	
W. A. Snow & Co.....	461 50	
C. F. Morse.....	3 18	
N. Y., N. H. & H. R. R.....	32	
	<hr/>	468 70
		<hr/>
		1,148 78
Balance carried forward to 1903....		82 07
		<hr/>
		\$1,230 85
		<hr/>

## REPAIRS ON CITY STABLES AND SHEDS.

Appropriation.....	3,500 00	
	<hr/>	\$3,500 00
		<hr/>

## EXPENDITURES.

To Appropriation for Sewer Con-		
struction .....	190 76	
Farrell & Conaton.....	422 43	
	<hr/>	613 19
Balance carried forward to 1903....		2,886 81
		<hr/>
		\$3,500 00
		<hr/>

ALTERATION IN PAWTUCKETVILLE, RACE STREET  
AND FLETCHER STREET ENGINE HOUSES.

Appropriation.....	500 00	
	<hr/>	\$500 00
Amount carried forward to 1903....	500 00	
	<hr/>	\$500 00
		<hr/>

## REBUILDING GORHAM STREET ENGINE HOUSE.

Balance Jan. 1, 1902.....	12,000 00	
	<hr/>	\$12,000 00
		<hr/>

## EXPENDITURES.

To App. for Engineering.....	142 12	
“ “ School Houses, Labor	245 37	
“ “ “ “ Sundries	77 89	
“ “ Water Works.....	4 43	
	<hr/>	
Amount carried forward.....	\$469 81	

## REBUILDING GORHAM STREET ENGINE HOUSE—Continued.

Amount brought forward .....	\$469 81	
Courier-Citizen Co.....	2 40	
Daily News Co.....	2 60	
Farrell & Conaton .....	284 68	
F. B. Hill & Co .....	5 50	
A. L. Kittredge & Co .....	2 35	
Lepine & Co .....	3 00	
Lowell Sun .....	2 12	
Lowell Daily Mail.....	3 00	
Sunday Telegram.....	3 03	
P. F. McNulty .....	182 34	
O'Donnell & Gilbride Co .....	29 20	
E. A. & A. T. Smith.....	103 65	
James H. Walker .....	10,846 43	
	<hr/>	11,940 11
Balance carried forward to 1903 ....		59 89
		<hr/>
		\$12,000 00
		<hr/>

## SANITARIES IN SCHOOLS.

Appropriation.....	2,000 00	
	<hr/>	\$2,000 00
		<hr/>

## EXPENDITURES.

Paid Welch Bros.....	74 45	
	<hr/>	74 45
Balance carried forward to 1903 ....		1,925 55
		<hr/>
		\$2,000 00
		<hr/>



## SLABS FOR SCHOOL URINALS.

Appropriation.....	500 00	
	<hr/>	<hr/>
		\$500 00

## EXPENDITURES.

Paid Welch Bros.....	490 00	
	<hr/>	
		490 00
Transferred to General Treasury... Fund.....		10 00
		<hr/>
		\$500 00

## ALTERATION IN CARTER STREET SCHOOL HEATING PLANT.

Appropriation.....	500 00	
	<hr/>	<hr/>
		\$500 00
Amount carried forward to 1903....	500 00	
	<hr/>	<hr/>
		\$500 00

## REBUILDING RIFLE RANGE BUILDINGS.

Appropriation.....	5,000 00	
Received from D. J. Waters, over- draft .....	5 25	
	<hr/>	<hr/>
		\$5,005 25

## EXPENDITURES.

Paid Sundry persons for labor....	1,141 18	
Appropriation for Engineering	12 75	
Appropriation for School Houses, sundries.....	34 76	
Burnham & Davis.....	364 75	
C. B. Coburn & Co.....	89 25	
	<hr/>	
Amount carried forward.....	\$1,642 69	

## REBUILDING, RIFLE RANGE—Continued.

Amount brought forward.....	\$1,642 69	
F. W. Cheney & Co.....	8 55	
W. H. Fuller .....	582 00	
F. B. Hill & Co.....	1 75	
Arthur P. Knapp .....	16 25	
W. A. Mack & Co.....	5 49	
Pratt & Forrest.....	1,094 90	
H. B. Shattuck & Son.....	27 14	
Tucke & Parker.....	7 67	
Wm. H. Wiggin.....	667 38	
	<hr/>	4,053 82
Balance carried forward to 1903. . .		951 43
		<hr/>
		\$5,005 25
		<hr/>

## PURCHASE OF SWAN MEADOW.

Balance Jan. 1, 1902.....	275 00	
	<hr/>	275 00
Paid W. H. McDaniels, trustee....	275 00	
	<hr/>	\$275 00
		<hr/>

## EDSON CEMETERY ANNEX.

Balance Jan. 1, 1902 .....	976 76	
	<hr/>	\$976 76
		<hr/>

## EXPENDITURES.

To Appropriation for Engineering..	15 75	
	<hr/>	15 75
Balance carried forward to 1903....		961 01
		<hr/>
		\$976 76
		<hr/>

## POLICE STATION ADDITIONS AND IMPROVEMENTS.

Appropriation.....	10,000 00	
	<hr/>	<u>\$10,000 00</u>

## EXPENDITURES.

To Appropriation for Engineering.	5 87	
Appropriation for School House		
House, labor .....	214 50	
Appropriation for School House		
sundries .....	3 28	
Courier-Citizen Co.....	3 00	
Daily News Co.....	3 25	
Lowell Sun .....	2 50	
Lowell Daily Mail .....	2 50	
Sunday Telegram.....	3 38	
A. L. Kittredge & Co.....	2 20	
Tucke & Parker.....	127 06	
Wm. H. Wiggin.....	7,546 42	
Welch Bros .....	416 78	
	<hr/>	8,330 74
Balance carried forward to 1903....		1,669 26
		<hr/>
		<u>\$10,000 00</u>

## POLICE SIGNAL BOXES.

Appropriation.....	3,900 00	
	<hr/>	<u>\$3,900 00</u>

## EXPENDITURES.

To Sundry persons for labor.....	429 00	
B. & M. R. R.....	96	
W. E. Decrow.....	1,456 59	
C. H. McEvoy.....	10 80	
Welch Bros .....	6 91	
	<hr/>	1,904 26
Balance carried forward to 1903....		1,995 74
		<hr/>
		<u>\$3,900 00</u>

## UNPAID CLAIMS OF 1901.

Appropriation .....	824 57	
	<u>          </u>	\$824 57
		<u>          </u>

## EXPENDITURES.

Paid Boston & Maine R. R. ....	1 18	
Edgar J. Carter.....	50 00	
Edward Edwards.....	50 00	
J. H. Hanson & Co.....	12 00	
Mass. Broken Stone Co. ....	156 97	
Chas. McSwiggan, Admr....	29 42	
Geo. F. Richardson.....	500 00	
Mary E. Stevens.....	25 00	
	<u>          </u>	\$824 57
		<u>          </u>

## CLAIM OF JOHN KEEFE.

Appropriation .....	980 36	
	<u>          </u>	\$980 36
		<u>          </u>
Paid John Keefe on execution.....	980 36	
	<u>          </u>	\$980 36
		<u>          </u>

## CLAIM OF HARRY PRESCOTT GRAVES.

Appropriation.....	1,000 00	
	<u>          </u>	\$1,000 00
		<u>          </u>
Paid Harry Prescott Graves.....	1,000 00	
	<u>          </u>	\$1,000 00
		<u>          </u>

## SALARY OF ROBERT V. SAUNDERS.

Appropriation .....	791 68	
	<hr/>	\$791 68
Paid Nettie M. Saunders, Admx....	791 68	
	<hr/>	<hr/>
		\$791 68
		<hr/>

## CLAIM OF BENJAMIN C. SHAW.

Appropriation.....	150 00	
	<hr/>	\$150 00
Paid Benjamin C. Shaw.....	150 00	
	<hr/>	<hr/>
		\$150 00
		<hr/>

PORTRAITS OF WILLIAM McKINLEY AND  
JEREMIAH CROWLEY.

Balance Jan. 1, 1902 .....	400 00	
	<hr/>	\$400 00
Paid Frederick A. Chase.....	400 00	
	<hr/>	<hr/>
		400 00
		<hr/>

## PORTRAIT OF WM. F. COURTNEY.

Appropriation.....	300 00	
	<hr/>	\$300 00
Paid M. J. David.....	300 00	
	<hr/>	<hr/>
		\$300 00
		<hr/>

## PORTRAIT OF CHARLES A. R. DIMON.

Appropriation.....	300 00	
	<hr/>	\$300 00
		<hr/>
Amount carried forward to 1903 ...		\$300 00
		<hr/>
		<hr/>

## CARE OF MEMORIAL HALL RELICS.

Appropriation .....	200 00	
	<hr/>	\$200 00
		<hr/>

## EXPENDITURES.

Paid Marshall & Crosby.....	200 00	
	<hr/>	\$200 00
		<hr/>

## MEMORIAL DAY, 1902.

Appropriation.....	1,150 00	
	<hr/>	\$1,150 00
		<hr/>

## EXPENDITURES.

## Music :

To American Orchestra.....	24 00	
Gen. Butler Fife & Drum Corp.	60 00	
Lowell Cadet Band.....	65 00	
Lowell Military Band.....	75 00	
National Band .....	75 00	
North Chelmsford Brass Band..	50 00	
Temple Male Quartette .....	12 00	
	<hr/>	361 00

## Decorations, Plants, Etc. :

To R. A. Griffiths.....	30 00	
Killpartrick Bros.....	17 00	
C. H. Kimball & Co.....	42 00	
C. L. Marshall .....	49 50	
	<hr/>	
Amounts carried forward.....	\$138 50	\$361 00

## MEMORIAL DAY—Continued.

Amounts brought forward .....	\$138 50	\$361 00
Pevey Bros.....	70 00	
Props. Lowell Cemetery.....	3 00	
Jas. Walsh.....	42 00	
C. F. Young & Co.....	18 00	
	<hr/>	271 50
Painting, Printing, Advertising, Etc. :		
To Joseph Carr.....	5 00	
Courier-Citizen Co.....	1 50	
F. P. Fish.....	10 00	
Lowell Daily Mail.....	1 50	
Post 120 G. A. R.....	4 50	
Union Printing Co.....	14 25	
	<hr/>	36 75
Refreshments, Etc. :		
To A. Cruickshank.....	50 00	
Page Catering Co.....	37 50	
Post 42 G. A. R.....	88 00	
Post 120 G. A. R.....	88 00	
Post 185 G. A. R.....	88 00	
	<hr/>	351 50
Transportation :		
To Boston & Northern St. R. R. Co.....	5 00	
C. A. Donaghue.....	3 00	
D. P. Knowlton.....	4 75	
Post 120 G. A. R.....	4 00	
J. H. Sparks.....	70 00	
	<hr/>	86 75
Sundries :		
To H. W. Allen.....	5 00	
Wm. Fairweather.....	5 00	
F. B. Peabody.....	32 50	
	<hr/>	42 50
		<hr/>
		\$1,150 00
		<hr/>



## OBSERVANCE OF FOURTH OF JULY 1902.

Appropriation . . . . .	2,000 00	
Received of J. J. Johnson, overdraft	10 00	
		\$2,010 00

## EXPENDITURES.

## Music. :

To American Band . . . . .	62 50	
Excelsior Band . . . . .	63 00	
Lowell Cadet Band . . . . .	122 50	
Lowell Military Band . . . . .	60 00	
Mireault's Band . . . . .	65 00	
National Band . . . . .	122 50	
	<hr/>	495 50

## Fireworks. :

To J. Edward Houle . . . . .	30 00	
Paine Fireworks Mfg. Co. . . . .	700 00	
	<hr/>	730 00

## Printing, Stationery and Advertising :

To Courier-Citizen Co. . . . .	16 50	
Daily News Co . . . . .	1 20	
Lepine & Co . . . . .	1 50	
Libby Printing Co. . . . .	15 00	
Lowell Daily Mail . . . . .	1 20	
Lowell Sun . . . . .	1 80	
G. C. Prince & Son . . . . .	2 00	
	<hr/>	39 20

## Childrens Entertainment :

To Frank M. Dowling . . . . .	15 00	
Waterworth & Gorman . . . . .	150 00	
	<hr/>	165 00

## Firing Salutes and Bell Ringing :

To Appropriation for Public Build- ings, labor . . . . .	18 00	
Lowell Mechanics Phalanx . . . . .	125 00	
Joseph J. Johnson . . . . .	10 00	
Edward S. Swift . . . . .	10 00	
	<hr/>	163 00

Amount carried forward . . . . .		\$1,592 70
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## OBSERVANCE OF FOURTH OF JULY, 1902—Continued.

Amount brought forward.....	\$1,592 70	
Carriage Hire :		
To Morse Coach Co.....	3 00	
P. F. McNulty .....	6 00	
J. F. O'Donnell .....	5 00	
J. H. Sparks.....	4 00	
John A. Weinbeck.....	6 00	
		24 00
Sports :		
To Emmett Base Ball Club.....	25 00	
Riverside Base Ball Club.....	25 00	
		50 00
Sundries :		
To J. Edward Houle, flags.....	35 00	
C. H. Kimball & Co., badges..	8 85	
Middlesex North Agriculture		
Society, use of Fair Grounds	25 00	
Richardson Hotel, refreshments	11 00	
J. B. Sabre, bags .....	50	
Welch Bros., use of gas fixtures	6 00	
		86 35
		1,753 05
Transferred to General Treasury...		
Fund.....		256 95
		\$2,010 00

## OBSERVANCE OF OLD HOME WEEK.

Appropriation.....	1,500 00	
		<u>\$1,500 00</u>

## EXPENDITURES.

Printing and Advertising :	
To Courier-Citizen Co.....	9 70
Daily News Co.....	5 50
Lowell Daily Mail .....	4 00
Amount carried forward.....	19 20

## OBSERVANCE OF OLD HOME WEEK—Continued.

Amount brought forward.....	\$19 20	
Lowell Sun.....	6 00	
Middlesex Typewriting Co ....	5 00	
G. C. Prince & Son.....	4 00	
	<hr/>	34 20
Lumber, Etc.:		
To Burnham & Davis . . . . .	28 65	
Pratt & Forrest.....	26 91	
	<hr/>	55 56
Carriage Hire, Transportation, Etc.:		
To American Ex. Co.....	50	
C. H. Hanson & Co.....	46 25	
Norris Livery Co.....	5 00	
J. F. O'Donnell ....	12 00	
J. H. Sparks.....	4 00	
G. E. Stanley.....	2 50	
	<hr/>	70 25
Music, Etc.:		
To American Band... . . . .	50 00	
Excelsior Band.....	75 00	
Gen. Butler Fife and Drum Corp . . . . .	48 00	
Lowell Cadet Band.....	75 00	
Lowell Military Band.....	50 00	
Lowell National Band.....	50 00	
	<hr/>	348 00
Sundries:		
To Fred Campbell . . . . .	3 25	
O. J. Carney, refreshments....	8 00	
John Cross.....	10 00	
C. M. Holmes, batons.....	6 50	
C. H. Kimball, badges.....	19 80	
Lowell Electric Light Corp....	16 71	
F. D. Munn & Son.....	2 84	
Merrimac House, refreshments	12 00	
S. E. Spencer & Co., badges..	7 20	
	<hr/>	
Amounts carried forward.....	\$86 30	\$508 01

## OBSERVANCE OF OLD HOME WEEK—Continued.

Amounts brought forward .....	\$ 86 30	\$508 01
Tucke & Parker, illuminating		
City Hall.....	75 00	
J. H. Walker, labor, prizes, etc.	816 89	
Welch Bros., use of fixtures, etc.	12 00	
		<hr/> 990 19
		<hr/> \$1,498 20
Transferred to General Treasury...		
Fund.....		1 80
		<hr/> \$1,500 00
		<hr/>

## OBSERVANCE OF LABOR DAY.

Appropriation.....	1,000 00	
	<hr/>	<hr/> \$1,000 00

## EXPENDITURES.

## Music :

To American Band.....	75 00	
Excelsior Band .....	75 00	
Lowell Cadet Band.....	75 00	
Lowell Military Band.....	140 00	
A. Mirault.....	75 00	
National Band .....	125 00	
	<hr/>	565 00

## Carriage Hire, Teaming, Etc. :

To Keefe & Horan.....	5 00	
P. F. McNulty .....	15 00	
J. F. O'Donnell.....	15 50	
Michael Rafferty .....	5 00	
J. H. Sparks.....	7 00	
Union Express & Teaming....	25 00	
	<hr/>	\$72 50

Amount carried forward.....		<hr/> \$637 50
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## OBSERVANCE OF LABOR DAY—Continued.

Amount brought forward.....	\$637 50	
Refreshments, Etc. :		
To F. A. Donohoe & Co.....	21 00	
J. McGlinchey.....	52 50	
		73 50
Decorations :		
To Lowell Electric Light Corp....	19 50	
C. H. May & Co.....	22 00	
Chas. F. Young & Co.....	10 00	
		51 50
Prizes :		
To Bakers Union.....	30 00	
Brass Moulders... ..	10 00	
Granite Cutters National Union	20 00	
Iron Moulders Union.....	65 00	
		125 00
Sundries :		
To J. F. Convery, expenses.....	19 15	
Elm Base Ball Club.....	25 00	
C. H. Kimball & Co., suits...	13 25	
Frank J. Simonds, badges.....	43 10	
		100 50
		988 00
Returned to General Treasury Fund		12 00
		<u>\$1,000 00</u>

## MUNICIPAL BAND CONCERTS.

Appropriation.....	650 00	
		<u>\$650 00</u>

## EXPENDITURES.

Music :	
To American Band.....	100 00
Excelsior Band .....	100 00
Amount carried forward.....	200 00

## OBSERVANCE OF LABOR DAY—Continued.

Amount brought forward.....	200 00	
Lowell Cadet Band.....	100 00	
Lowell Military Band.....	100 00	
A. Mirault.....	100 00	
National Band.....	100 00	
	<hr/>	600 00
Lighting :		
To Lowell Gas Light Co.....	2 27	
	<hr/>	2 27
Pipe, Fittings, Etc :		
To Welch Bros.....	47 00	
	<hr/>	47 00
		<hr/>
		649 27
Transferred to General Treasury Fund.....		73
		<hr/>
		\$650 00
		<hr/>
		<hr/>

## LOWELL TEXTILE SCHOOL.

Appropriation.....	8,000 00	
	<hr/>	8,000 00

## EXPENDITURES.

Paid Trustees Lowell Textile School.	8,000 00	
	<hr/>	\$8,000 00
		<hr/>

## STATE AID, OFFICE EXPENSES.

Appropriation.....	2,095 00	
Additional Appropriation.....	6 51	
Receipts .....	3 50	
	<hr/>	\$2,105 01
		<hr/>
		<hr/>

## STATE AID—Continued.

## EXPENDITURES.

Paid Herbert M. Potter, Supt.....	1,200 00	
Mary C. Brennan, Asst. Supt.	720 00	
	<hr/>	1,920 00
Books, Stationery, Printing, Etc. :		
To Baker Printing Co .....	4 00	
Carter's Ink Co.....	38	
Courier-Citizen Co.....	9 50	
Thomas H. Lawler.....	2 00	
G. C. Prince & Son.....	10 75	
Sampson, Murdock & Co.....	3 00	
F. A. M. Tobin .....	3 75	
	<hr/>	33 38
Sundries :		
To N. E. Tel. & Tel. Co., telephone	36 00	
H. M. Potter, expenses.....	113 63	
J. H. Sparks, carriage-hire....	2 00	
	<hr/>	151 63
		<hr/>
		\$2,105 01
		<hr/>

## STATE AID.

Appropriation.....	15,000 00	
Additional Appropriation.....	100 50	
Receipts .....	34 50	
	<hr/>	\$15,135 00
		<hr/>

## EXPENDITURES.

Paid Sundry persons aid for 1902...	15,135 00	
	<hr/>	\$15,135 00
		<hr/>

## MILITARY AID.

Appropriation .....	7,800 00	
Receipts .....	10 00	
	<hr/>	\$7,810 00
		<hr/>



## MILITARY AID—Continued.

## EXPENDITURES.

Paid sundry persons . . . . .	6,332 00	
Returned to General Treasury Fund.	1,478 00	
	<hr/>	\$7,810 00
		<hr/>

## SOLDIERS RELIEF.

Appropriation . . . . .	8,600 00	
Additional Appropriation . . . . .	12 53	
Receipts . . . . .	21 00	
	<hr/>	\$8,633 53
		<hr/>

## EXPENDITURES.

Cash allowances . . . . .	5,073 00	
	<hr/>	\$5,073 00
Provisions, Fuel, Etc. :		
To Appropriation for Paupers, Out		
Door Relief, Gen. Sundries	116 25	
Appropriation for Purchase of		
Wood . . . . .	25 00	
Breen Bros . . . . .	63 00	
Ephraim Brown Estate . . . . .	48 00	
J. S. Brooks . . . . .	145 00	
Joseph Belleman . . . . .	4 20	
J. H. Burke & Co . . . . .	52 00	
Peter Cassidy . . . . .	5 00	
Jessie Caine . . . . .	24 00	
City of Taunton . . . . .	5 25	
D. J. Donovan . . . . .	69 11	
Annie Ducey . . . . .	10 00	
Lyman F. Dodge . . . . .	1 50	
Family Supply Co . . . . .	162 00	
Susan Gannon . . . . .	6 00	
W. T. Griffin . . . . .	31 00	
Hill Transfer Co . . . . .	4 50	
	<hr/>	
Amounts carried forward . . . . .	\$711 81	\$5,703 00

## SOLDIERS RELIEF—Continued.

Amounts brought forward.....	\$ 771 81	\$5,073 00
W. J. Hardy & Co.....	55 00	
Keefe Bros.....	9 00	
J. M. Kingsbury.....	43 25	
Louisa C. Lane.....	12 50	
Geo. Lynch.....	250 55	
Chas. S. Lilley.....	72 00	
Alfred LeBlanc.....	78 00	
Lowell Coal Co.....	17 75	
Lincoln Square Grocery.....	42 00	
Nellie Moriarty.....	50 00	
Meagher Bros.....	4 00	
M. Murphy.....	66 00	
McDonald Bros.....	72 00	
J. McCullough.....	13 58	
Margaret Montgomery.....	6 00	
N. E. Market.....	54 00	
H. M. Potter.....	29 05	
Parker Coal and Wood Co.....	84 50	
M. N. Peabody.....	4 00	
Ranlett & Ranlett.....	8 00	
O. B. Ranlett.....	49 24	
H. F. Rich.....	6 00	
Ann Rourke.....	42 00	
Ranlett Grocery Co.....	14 93	
J. B. Richardson Sons.....	18 00	
J. F. Stearns.....	130 00	
Daniel T. Sullivan.....	117 73	
P. P. Stiles & Co.....	106 45	
F. R. Strout.....	156 00	
John F. Saunders.....	65 00	
Stanley & Co.....	8 00	
F. A. Tuttle.....	6 00	
Town of Chelmsford.....	24 00	
Thomas Tully.....	6 00	
Union Market.....	132 17	
Walker & Thompson.....	78 00	
		2,702 51
Amount carried forward.....		\$7,775 51

## SOLDIERS RELIEF—Continued.

Amount brought forward..... \$7,775 51

## Professional Services :

To Solon Bartlett.....	47 00
P. Brunelle.....	41 00
W. A. Johnson.....	15 00
J. E. Leary.....	80 00
J. P. McAdams.....	22 00

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205 00

## Interments :

To Amédée Archambault.....	35 00
J. W. Brooks.....	79 00
Peter Davey.....	35 00
Horace Ela & Son.....	35 00
John J. Higgins.....	210 00
J. F. O'Donnell.....	35 00
Peter H. Savage.....	35 00
C. M. Young & Co.....	119 02
John A. Weinbeck.....	70 00

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653 02

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\$8,633 53

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## TEMPORARY LOANS.

Balance Jan. 1, 1902..... 500,000 00

Appropriation..... 1,100,000 00

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\$1,600,000 00

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## EXPENDITURES.

To National Bank of Redemption.. 450,000 00

    Lowell Institution for Savings.. 550,000 00

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1,000,000 00

Balance undrawn Dec. 31, 1902....

600,000 00

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\$1,600,000 00

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## CITY DEBT.

Appropriation . . . . .	289,500 00	
Receipts . . . . .	87,600 00	
	<hr/>	\$377,100 00

## EXPENDITURES.

Paid on account of Water Debt :

To Sundry persons . . . . .	5,000 00	
Lowell Institution for Savings..	19,100 00	
Estabrook & Co. . . . .	7,500 00	
	<hr/>	31,600 00

Paid on account of Ordinary City Debt :

To Commonwealth of Mass. . . . .	13,250 00	
Central Savings Bank. . . . .	25,220 00	
City Institution for Savings. . . . .	7,100 00	
Commissioner of Sinking Funds	2,500 00	
East River Savings Institution..	5,000 00	
Lowell Five Cent Savings Bank	520 00	
Lowell Institution for Savings..	184,110 00	
N. E. Mutual Life Insurance Co	1,900 00	
Natick Five Cent Savings Bank	3,000 00	
16 Bonds on loan of Nov. 1, 1893	15,500 00	
Seamans Bank for Savings. . . . .	17,500 00	
Sundry persons. . . . .	66,000 00	
Washington Savings Institution.	3,900 00	
	<hr/>	345,500 00
		<hr/>
		\$377,100 00
		<hr/>

## INTEREST.

Appropriation . . . . .	125,000 00	
	<hr/>	\$125,000 00
		<hr/>

## INTEREST—Continued.

## EXPENDITURES.

To Bowery Savings Bank .....	6,000 00	
Central Savings Bank.....	4,618 28	
City Institution for Savings....	1,988 00	
Commonwealth of Massachusetts	4,242 50	
Commissioners of Sinking Funds	612 50	
Lowell Five Cent Savings Bank	145 60	
Lowell Institution for Savings..	51,717 13	
Leominster Savings Bank .....	400 00	
Loring, Tolman & Tupper ...	6,215 62	
Ministry at Large .....	600 00	
National Bank of Redemption..	3,006 25	
New York Savings Bank. ....	2,000 00	
N. E. Mutual Life Insurance Co	380 00	
Natick Five Cent Savings Bank	240 00	
Seamans Bank for Savings ....	3,250 00	
Trustees Est. Thomas Nesmith.	1,500 00	
Treasurer High St. Church....	60 00	
Washington Institution for Sav- ings.....	1,240 50	
Est. Samuel Watts.....	200 00	
Worcester North Institution for Savings.....	462 50	
Sundry persons on bonds.....	35,534 86	
Sundry persons on taxes paid twice.....	81	
		124,414 55
Transferred to General Treasury Fund.....		585 45
		<u>\$125,000 00</u>

## SINKING FUNDS.

The value of the several Sinking Funds Dec. 31, 1902, which apply to the reduction of the water debt, as reported by the Commissioners of Sinking Funds are as follows :

Water Loan Sinking Fund and Sinking Fund for High Service Water Supply .....	343,201 43	
		\$343,201 43

The values of the several Sinking Funds Dec. 31, 1902, which apply to the reduction of the Ordinary City Debt, as reported by Commissioners of Sinking Funds are as follows :

Intercepting Sewer Fund .....	87,763 84	
City Hall and Memorial Building Sinking Funds .....	132,821 41	
High School Sinking Fund .....	42,360 33	
Extension Rogers Ft. Hill Park Sinking Fund .....	55,508 58	
Sinking Fund for New School Houses .....	23,783 24	
		342,237 40
		<u>\$685,438 83</u>

Total value of the Hapgood Wright Centennial Trust Fund, Dec. 31, 1902, was .....	3,023 84	
		<u>\$3,023 84</u>

## SINKING FUNDS—Continued.

## CITY HALL AND MEMORIAL BUILDING SINKING FUND.

Appropriated in 1902.....	7,500 00	
	<u>          </u>	<u>\$7,500 00</u>

Paid Commissioners of Sinking Funds.....	7,500 00	
	<u>          </u>	<u>\$7,500 00</u>

## HIGH SCHOOL SINKING FUND.

Appropriated in 1902.....	3,000 00	
	<u>          </u>	<u>\$3,000 00</u>

Paid Commissioners of Sinking Funds.....	3,000 00	
	<u>          </u>	<u>\$3,000 00</u>

## SINKING FUND FOR NEW SCHOOL HOUSES.

Appropriated in 1902.....	4,000 00	
	<u>          </u>	<u>\$4,000 00</u>

Paid Commissioners of Sinking Funds.....	4,000 00	
	<u>          </u>	<u>\$4,000 00</u>

## EXTENSION ROGERS FORT HILL PARK SINKING FUND.

Appropriated in 1902.....	6,000 00	
	<u>          </u>	<u>\$6,000 00</u>

Paid Commissioners of Sinking Funds .....	6,000 00	
	<u>          </u>	<u>\$6,000 00</u>



## SINKING FUNDS—Continued.

## INTERCEPTING SEWER FUND.

Appropriated in 1902.....	5,000 00	
	<hr/>	<u>\$5,000 00</u>

Paid Commissioners of Sinking Funds.....	5,000 00	
	<hr/>	<u>\$5,000 00</u>

## WATER LOAN SINKING FUND.

Appropriated in 1902.....	16,000 00	
	<hr/>	<u>\$16,000 00</u>

Paid Commissioners of Sinking Funds....	16,000 00	
	<hr/>	<u>\$16,000 00</u>

## SINKING FUND FOR HIGH SERVICE WATER SUPPLY.

Appropriated in 1902.....	1,800 00	
	<hr/>	<u>\$1,800 00</u>

Paid Commissioners of Sinking Funds .....	1,800 00	
	<hr/>	<u>\$1,800 00</u>

## CARNEY MEDAL FUND.

Balance undrawn Jan. 1, 1902. ....	200 00	
	<hr/>	<u>\$200 00</u>

Balance undrawn Dec. 31, 1902. ....	200 00	
	<hr/>	<u>\$200 00</u>

## CORPORATION TAX FUND.

Balance undrawn Jan. 1, 1902. ....	2,209 01	
Additional Appropriation. ....	10,000 00	
	<hr/>	<u>12,209 01</u>

## EXPENDITURES.

To American House, refreshments.	150 00
Chas. A. Allen, professional services. ....	374 04
Harry A. Brown, professional services. ....	16 24
J. E. Conant & Co. professional services. ....	400 00
John Cumnock, professional services. ....	3,075 00
M. F. Foster, professional services. ....	50 00
J. A. Gregoire, carriage hire..	4 00
Fred. S. Hines, professional services. ....	753 39
Lord & Hunneman, professional services. ....	1,230 00
	<hr/>
Amount carried forward. ....	\$6,052 67

## CORPORATION, TAX FUND—Continued.

Amount brought forward.....	\$6,052 67	
A. F. Knight, professional services.....	3,394 96	
Morse Coach Co., carriage hire	1 00	
Francis W. Qua, professional services.....	182 10	
George F. Stiles, professional services.....	10 90	
Shepard & Fuller, professional services.....	132 60	
J. Hubert Shedd, professional services.....	835 11	
Jay M. Witham, professional services.....	498 70	
Burton H. Wiggin, professional services.....	735 85	
William H. Wiggin.....	311 50	
		12,155 39
Balance undrawn Dec. 31, 1902....		53 62
		<u>12,209 01</u>

## PURCHASE OF WOOD.

Additional Appropriation.....	6,500 00	
Receipts from sundry sources.....	1,505 73	
		<u>8,005 73</u>

## EXPENDITURES.

Teaming, Labor, Etc.:	
To Sundry persons as per pay roll	206 03
Appropriation Commons, Sundries.....	203 63
Watering Streets.....	85 35
Edward Duren.....	7 50
Amount carried forward.....	<u>\$502 51</u>

## PURCHASE OF WOOD—Continued.

Amount brought forward .....	\$502 51	
C. H. Hanson & Co.....	172 80	
F. B. Hill & Co... ..	38 00	
Geo. H. McNabb.....	17 50	
Wm. H. Wiggin.....	81 50	
	<hr/>	812 31
Wood :		
To C. H. Hanson & Co.....	1,577 06	
Jas. H. Joyce.....	983 38	
Alfred Kershaw.....	254 50	
Fred H. Ela .....	2,261 00	
	<hr/>	5,075 94
Sundries. :		
To B. & M. R. R. transportation	142 87	
C. B. Coburn & Co., baskets..	19 00	
Thompson Hardware Co., saw	7 20	
	<hr/>	169 07
		<hr/>
		6,057 32
Balance to 1903 .....		1,948 41
		<hr/>
		\$8,005 73

## STATE TAX.

Appropriation .....	42,474 29	
	<hr/>	\$42,474 29

## STATE TAX—Continued.

Paid Commonwealth, State Tax ordinary .....	37,560 00	
Paid Commonwealth, Armory Loan	1,764 29	
Paid Commonwealth, interest on Armory Loan.....	3,150 00	
	<hr/>	\$42,474 29

## GRADE CROSSING TAX.

Appropriation.....	3,574 37	<u>\$3,574 37</u>
Paid Commonwealth Tax of 1902..	3,574 37	<u>\$3,574 37</u>

## STATE HIGHWAY TAX.

Appropriation.....	115 50	<u>\$115 50</u>
Paid Commonwealth Tax of 1902..	115 50	<u>\$115 50</u>

## COUNTY TAX.

Appropriation.....	78,689 73	<u>\$78,689 73</u>
Paid County of Middlesex Tax of 1902.....	78,689 73	<u>\$78,689 73</u>

## NATIONAL BANK TAX.

Appropriation.....	11,035 04	<u>\$11,035 04</u>
Paid Commonwealth.....	11,035 04	<u>\$11,035 04</u>

## TAXES.

Appropriation.....	\$295 16	
	<hr/>	\$295 16
		<hr/>
Paid sundry persons for taxes over- paid and paid after abatement	\$295 16	
	<hr/>	\$295 16
		<hr/>

## TAXES.

The Amount of taxes assessed on the Polls and on the Real and Personal Estates within the City of Lowell, for the year 1902, was as follows :

## VALUATION OF AND TAX ON REAL AND PERSONAL PROPERTY.

VALUATION.	RATE.	TAX.
Real Estate...\$56,709,315 00	\$19 60 per \$1,000	\$1,111,502 57
Personal Estate.15,194,442 00	19 60 per \$1,000	297,811 07
Total valuation\$71,903,757 00	Tax on property.	\$1,409,313 64
<hr/>		
Number of Polls 25,263 at \$2.00 each. ....		\$50,526 00
Tax assessed on shares of stock in the National Banks of Lowell, held by non-residents and which are not included in the City Valuation : .....		10,974 00
		<hr/>
		\$1,470,813 64
		<hr/>

## GENERAL TREASURY FUND TAXES.

Uncollected Jan. 1, 1901.....	\$ 537,262 37	
Assessment 1902.....	1,470,813 64	
Appropriated ..	295 16	
	<hr/>	\$2,008,371 17
Receipts ...	\$1,421,941 46	
Abated by Assessors.....	21,736 71	
	<hr/>	\$1,443,678 17
Uncollected Dec. 31, 1902.....		564,693 00
		<hr/>
		<u>\$2,008,371 17</u>

## GENERAL TREASURY FUND, LOANS.

Received from Sundry persons on account of Permanent Loans....	\$222,885 00	
Received from Sundry persons on account of Temporary Loans...	1,100,000 00	
	<hr/>	\$1,322,885 00

## APPROPRIATED.

To Sundry Department Loans.....	\$222,885 00	
Temporary Loans.....	1,000,000 00	
	<hr/>	\$1,322,885 00

## GENERAL TREASURY FUND, REVENUE.

Balance Jan. 1, 1902.....	16,982 87	
Received into General Treasury Fund from Sundry department account	400,681 85	
Transferred from Sundry Depart- ments.....	56,444 90	
Balance overdrawn Dec. 31, 1902..	1,043 50	
	<hr/>	\$475,153 12
Appropriated for Department Ex- penses 1902. ....	474,328 55	
Appropriated for unpaid Bills of 1902.....	824 57	
	<hr/>	\$475,153 12



# **DUE FROM THE CITY ON WATER LOAN.** **DECEMBER 31, 1902.**

Date of Securities.	To Whom Payable.	Amount.	Rate.	Interest—When Due.	Interest Due in 1903.	Notes and Installments. When Due.	Payments 1903.
1881, Nov. 1...	Blake Bros. & Co .....	\$ 75,000 00	4	May 1 and Nov. 1.	\$ 3,000 00	1911, Nov. 1.	
1890, Nov. 1..	Sundry Persons (bonds).....	1,000,000 00	4	May 1 and Nov. 1.	40,000 00	1920, Nov. 1.	
†1894, Aug. 6..	Lowell Institution for Savings.....	10,000 00	3½	Feb. 6 and Aug. 6.	350 00	1903, Aug. 6.	\$ 5,000 00
†1895, Aug. 7..	Sundry persons.....	40,000 00	4	Feb. 7 and Aug. 7.	1,600 00	1903, Aug. 7.	5,000 00
†1897, Nov. 8..	Lowell Institution for Savings.....	20,500 00	4	May 8 and Nov. 8.	820 00	1903, Nov. 8.	4,100 00
†1900, Aug. 8..	Estabrook & Co.....	60,000 00	4	Feb. 8 and Aug. 8.	2,400 00	1903, Aug. 8.	7,500 00
		\$1,205,500 00			\$48,170 00		\$21,600 00

‡ Driven Well Plant.

DUE FROM THE CITY ON ORDINARY CITY DEBT.

DECEMBER 31, 1902.

Date of Securities.	To Whom Payable.	Amount.	Rate.	Interest—When Due.	Interest Due in 1903.	Notes and Installments. When Due.	Payments Due, 1903.
*1871, Mar. 6...	Bequest of Thomas Nesmith.....	\$25,000 00	6	March 6 and Sept. 6	\$1,500 00	Perpetual	
†1871, April 10.	Bequest of Thomas Nesmith.....	1,000 00	6	April 10 and Oct. 10	60 00	Perpetual	
†1878, May 10.	Bequest of Jonathan Tyler.....	10,000 00	6	May 10 and Nov. 10	600 00	Perpetual	
1883, April 2...	Perkins, Dupee & Co. (bonds).....	94,000 00	4	April 2 and Oct. 2	1,880 00	1903, April 2	\$94,000 00
1890, Oct. 1...	Sundry persons (bonds).....	450,000 00	4	April 1 and Oct. 1	18,000 00	1920, Oct. 1	
1891, April 1...	Sundry persons (bonds).....	150,000 00	4	April 1 and Oct. 1	6,000 00	1921, April 1	
1893, June 7...	Lowell Institution for Savings.....	3,390 00	4	June 7 and Dec. 7	79 80	1903, June 7	3,390 00
1893, June 17.	Lowell Institution for Savings.....	5,800 00	4	June 17 and Dec. 17	116 00	1903, June 17	5,800 00
1893, Nov. 1...	Lee, Higginson & Co.....	15,500 00	4½	May 1 and Nov. 1	658 75	1903, Nov. 1	15,500 00
1893, Dec. 3...	Lowell Institution for Savings.....	12,200 00	4	June 3 and Dec. 3	488 00	1903, Dec. 3	12,200 00
1894, Feb. 19...	Sundry persons (bonds).....	70,210 23	3½	Feb. 19 and Aug. 19	2,457 36	1904, Feb. 19	
1894, Feb. 21...	Central Savings Bank.....	5,200 00	4	Feb. 21 and Aug. 21	156 00	1903, Feb. 21	2,400 00
1894, Feb. 21...	Lowell Institution for Savings.....	12,000 00	3½	Feb. 21 and Aug. 21	356 25	1903, Feb. 21	6,000 00
1894, April 1...	Lowell Institution for Savings.....	3,000 00	4	April 1 and Oct. 1	90 00	1903, April 1	1,500 00
1894, May 4. .	Lowell Institution for Savings.....	10,000 00	3½	May 4 and Nov. 4	282 50	1903, May 4	5,000 00
1894, June 29...	Lowell Institution for Savings.....	10,200 00	3½	June 29 and Dec. 29	267 75	1903, June 29	5,100 00
1894, July 12 .	Lowell Institution for Savings.....	5,000 00	3½	Jan. 12 and July 12	175 00	1903, July 12	2,500 00
1894, Oct. 19 ..	Lowell Institution for Savings.....	1,400 00	3½	April 19 and Oct. 19	49 00	1903, Oct. 19	700 00
1894, Oct. 19 ..	Lowell Institution for Savings.....	20,000 00	3½	April 19 and Oct. 19	700 00	1903, Oct. 19	10,000 00
1895, Jan. 4....	Lowell Institution for Savings.....	3,600 00	4	Jan. 4 and July 4	120 00	1903, Jan. 4	1,200 00
1895, Jan. 4...	National Bank of Redemption, Boston...	22,500 00	4	Jan. 4 and July 4	750 00	1903, Jan. 4	7,500 00
1895, Aug. 7...	Sundry persons.....	30,000 00	4	Feb. 7 and Aug. 7	1,200 00	1903, Aug. 7	10,000 00
1895, Nov. 27..	Seaman's Bank for Savings, N. Y.....	30,000 00	4	May 27 and Nov. 27	1,200 00	1903, Nov. 27	10,000 00
1896, May 5....	Lowell Institution for Savings.....	30,000 00	3½	May 5 and Nov. 5	951 56	1903, May 5	7,500 00
1896, May 6...	E. H. Rollins & Son.....	10,000 00	4	May 6 and Nov. 6	350 00	1903, May 6	2,500 00
1896, May 6...	E. H. Rollins & Son.....	10,000 00	4	May 6 and Nov. 6	350 00	1903, May 6	2,500 00
1896, July 1...	Sundry persons (bonds).....	200,000 00	4	Jan. 1 and July 1	8,000 00	1926, July 1	
1896, Sept. 19...	New England Life Insurance Co., Boston..	7,600 00	4	March 19 and Sept. 19	304 00	1903, Sept. 19	1,900 00
1896, Nov. 18..	E. H. Rollins & Son.....	20,000 00	4	May 18 and Nov. 18	800 00	1903, Nov. 18	5,000 00
1897, May 11...	The Scaman's Bank for Savings, N. Y.....	37,500 00	4	May 11 and Nov. 11	1,350 00	1903, May 11	7,500 00
1897, Aug. 10..	Lowell Institution for Savings.....	22,500 00	4	Feb. 10 and Aug. 10	900 00	1903, Aug. 10	4,500 00
1897, Nov. 8...	Lowell Institution for Savings.....	7,500 00	4	May 8 and Nov. 8	300 00	1903, Nov. 8	1,500 00
1897, Nov. 24...	Lowell Institution for Savings.....	5,050 00	4	May 24 and Nov. 24	202 00	1903, Nov. 24	1,010 00
1898, May 18...	Lowell Institution for Savings.....	60,000 00	4	May 18 and Nov. 18	2,200 00	1903, May 18	10,000 00
1898, July 9...	City Institution for Savings.....	21,000 00	4	Jan. 9 and July 9	840 00	1903, July 9	3,500 00
1898, Aug. 6...	Commissioners of Sinking Funds.....	15,000 00	3½	Feb. 6 and Aug. 6	525 00	1903, Aug. 6	2,500 00
1898, Aug. 15..	Lowell Five Cent Savings Bank.....	3,120 00	4	Feb. 15 and Aug. 15	124 80	1903, Aug. 15	520 00
1898, Sept. 22...	Lowell Five Cent Savings Bank.....	18,000 00	4	March 22 and Sept. 22	720 00	1983, Sept. 22	3,000 00
1898, Oct. 4....	City Institution for Savings.....	21,600 00	4	April 4 and Oct. 4	864 00	1903, Oct. 4	3,600 00
1898, Nov. 9...	Lowell Institution for Savings.....	60,000 00	4	May 9 and Nov. 9	2,400 00	1903, Nov. 9	10,000 00
1898, Dec. 8...	Lowell Institution for Savings.....	28,800 00	4	June 8 and Dec. 8	1,162 00	1903, Dec. 8	4,800 00
1898, Dec. 8...	Lowell Institution for Savings.....	18,060 00	4	June 8 and Dec. 8	722 40	1903, Dec. 8	3,010 00
1899, Mar. 7...	Lowell Institution for Savings.....	24,800 00	3½	March 7 and Sept. 7	710 93	1903, March 7	3,500 00
1899, June 1.	Central Savings Bank... .	21,000 00	4	June 1 and Dec. 1	780 00	1903, June 1	3,000 00
1899, June 1..	Central Savings Bank.....	12,250 00	4	June 1 and Dec. 1	455 00	1903, June 1	1,750 00
1899, June 10..	Central Savings Bank.....	23,100 00	4	June 10 and Dec. 10	858 00	1903, June 10	3,300 00
1899, July 11.	Central Savings Bank.....	8,400 00	4	Jan. 11 and July 11	336 00	1903, July 11	1,200 00
1899, Aug. 9...	Lowell Institution for Savings.....	20,650 00	3½	Feb. 9 and Aug. 9	645 31	1903, Aug. 9	2,950 00
1899, Aug. 9...	Lowell Institution for Savings.....	21,000 00	3½	Feb. 9 and Aug. 9	656 25	1903, Aug. 9	3,000 00
1899, Sept. 15...	Lowell Institution for Savings.....	19,600 00	3½	March 15 and Sept. 15	612 50	1902, Sept. 15	2,800 00
1899, Nov. 6...	Lowell Institution for Savings.....	4,270 00	3 8-10	May 6 and Nov. 6	162 26	1903, Nov. 6	610 00
1899, Nov. 17..	Lowell Institution for Savings.....	18,300 00	4	May 17 and Nov. 17	728 00	1903, Nov. 17	2,600 00
1899, Dec. 23...	Lowell Institution for Savings.....	7,000 00	4	June 23 and Dec. 23	280 00	1903, Dec. 23	1,000 00
1899, Dec. 30.	Lowell Institution for Savings.....	9,800 00	4	June 30 and Dec. 30	392 00	1903, Dec. 30	1,400 00
1900, Feb. 1...	Washington Savings Institution. ....	4,800 00	3½	Feb. 1 and Aug. 1	157 50	1903, Feb. 1	600 00
1900, April 3...	Lowell Institution for Savings.....	54,400 00	3½	April 3 and Oct. 3	1,593 75	1903, April 3	6,800 00
1900, April 14.	Lowell Institution for Savings.....	2,800 00	3½	April 14 and Oct. 14	82 03	1903, April 14	350 00
1900, April 21.	Lowell Institution for Savings.....	30,800 00	3½	April 21 and Oct. 21	902 34	1903, April 21	3,850 00
1900, May 22...	Lowell Institution for Savings.....	9,600 00	3½	May 22 and Nov. 22	281 25	1903, May 22	1,200 00
1900, Aug. 6...	Central Savings Bank.....	24,000 00	4	Feb. 6 and Aug. 6	960 00	1903, Aug. 6	3,000 00
1900, Oct. 15..	Washington Savings Institution.....	14,400 00	3½	April 15 and Oct. 15	504 00	1903, Oct. 15	1,800 00
1900, Oct. 31 ..	Lowell Institution for Savings.....	24,000 00	3½	April 30 and Oct. 31	840 00	1903, Oct. 31	3,000 00
1900, Dec. 26..	Commonwealth of Mass.....	6,000 00	3½	June 26 and Dec. 26	210 00	1903, Dec. 26	750 00
1901, May 4....	Central Savings Bank.....	7,830 00	3½	May 4 and Nov. 4	258 82	1903, May 4	870 00
1901, May 23..	Lowell Institution for Savings.....	32,400 00	3½	May 23 and Nov. 23	994 50	1903, May 23	3,600 00
1901, July 27.	Lowell Institution for Savings.....	53,550 00	3½	Jan. 27 and July 27	1,740 38	1903, July 27	5,950 00
1901, Aug. 19..	Lowell Institution for Savings.....	49,500 00	3 3-10	Feb. 19 and Aug. 19	1,633 50	1903, Aug. 19	5,500 00
1901, Aug. 19...	Washington Institution for Savings.....	13,500 00	3 3-10	Feb. 19 and Aug. 19	445 50	1903, Aug. 19	1,500 00
1901, Nov. 15..	Lowell Institution for Savings.....	26,910 00	3 3-10	May 15 and Nov. 15	888 03	1903, Nov. 15	2,990 00
1901, Dec. 20..	Lowell Institution for Savings.....	32,000 00	3 3-10	June 20 and Dec. 20	1,056 00	1903, Dec. 20	8,000 00
1901, Dec. 20..	Lowell Institution for Savings.....	10,800 00	3 3 10	June 20 and Dec. 20	356 40	1903, Dec. 20	1,200 00
1902, June 3...	Lowell Institution for Savings.....	63,900 00	3½	June 3 and Dec. 3	1,972 92	1903, June 3	6,390 00
1902, July 14..	Central Savings Bank.....	5,000 00	3½	Jan. 14 and July 14	162 50	1903, July 14	500 00
1902, Sept. 4 ..	Lowell Institution for Savings.....	55,480 00	3½	March 4 and Sept. 4	1,872 45	1903, Sept. 4	5,548 00
1902, Sept. 11..	Lowell Institution for Savings. ....	61,655 00	3½	March 11 and Sept. 11	2,080 86	1903, Sept. 11	6,165 50
1902, Nov. 4...	Washington Institution for Savings.....	2,000 00	3½	May 4 and Nov. 4	70 00	1903, Nov. 4	400 00
1902, Nov. 4 ..	Washington Institution for Savings.....	8,350 00	3½	May 4 and Nov. 4	292 25	1903, Nov. 4	835 00
19 2, Dec. 4...	Lowell Institution for Savings.....	6,500 00	4	June 4 and Dec. 4	260 00	1903, Dec. 4	6,500 00
1902, Dec. 31	Lowell Institution for Savings.....	20,000 00	3-55	June 30 and Dec. 31	710 00	1903 Dec. 31	2,000 00
	Amount of City Debt (ordinary).....	\$2,452,275 29		Int. Ordinary City Debt.	\$67,863 40	Installments Ord. City Debt.	\$374,888 50
	Amount of Water Loan ....	1,205,500 00		Int. Water Loans	48,170 00	Payments	21,000 00
	Total Amount of City Debt.....	\$3,657,775 29		Total Int. City Debt.	\$136,033 40	Total Instal's City Debt.	396,438 50
	Amount of Sinking Funds... ..	685,438 83					
	Net City Debt.....	\$2,972,336 46					

\*Interest on the same for the poor.

†Interest on the same for High Street Church.

‡Interest on the same for the poor.







## COST OF SEWERS LAID IN 1902.

Agawam Street. From St. James Street, northerly a distance of three hundred twenty (320) feet.....	\$ 379 46
Aiken Avenue and Essex Street. From Cumberland Road, easterly in Aiken Avenue to a point near Hildreth Street and from Aiken Avenue, northerly in Essex Street to a point near Hildreth Street, a total distance of one thousand six hundred fifty-eight (1658) feet..	19,962 73
Aiken Street. From Lakeview Avenue, westerly a distance of five hundred eighteen (518) feet.....	919 30
Auburn and Gorham Streets. From the end of sewer formerly laid in Auburn Street, westerly to Gorham Street and northerly in Gorham Street, a total distance of one hundred seventy-four (174) feet.....	578 95
Beacon and Durant Streets. From terminus of sewer formerly laid in Durant Street, easterly to Beacon Street and northerly in Beacon St., a total distance of eight hundred fifteen (815) feet.....	1,879 90
Bleachery and Carter Streets. From Livingston Street, easterly in Carter Street, to Bleachery Street, and southerly in Bleachery Street, a total distance of seven hundred one (701) feet	1,153 25
Bowden Street. From Gorham Street, easterly a distance of six hundred fifty-four (654) feet.	1,108 44
Boynton Street. From Barker Avenue, easterly, a distance of three hundred sixty-three (363) feet	1,141 68
Brunswick Street. From Railroad Street, easterly a distance of four hundred sixteen (416) feet..	1,169 87
C Street. From terminus of sewer formerly laid westerly, a distance of forty-nine (49) feet...	58 00

## COST OF SEWERS LAID IN 1902.—Continued.

Central and Chapel Streets. (Rebuilt, Completed) From Central Street to Walnut Street, in Chapel a distance of three hundred sixty (360) feet.....	3,437 61
Central Street. (Rebuilt.) From Chapel Street, easterly, a distance of one hundred seventy seven (177) feet.....	536 68
Chase Street. From Swift Street, northerly and westerly, a distance of three hundred thirty four (334) feet.....	550 00
Clitheroe Street. From Nesmith Street, easterly a distance of thirty five (35) feet.....	108 95
Coburn Street. From West Sixth Street, northerly a distance of one hundred sixty three (163) feet.....	244 48
Court Street. (Unfinished.) From Blossom Street, southerly a distance of one hundred fifty (150) feet.....	5,100 57
Dunfey Street. From Fifth Avenue, northerly, a distance of six hundred sixty (660) feet.....	1,993 20
Emery Street. From terminus of sewer formerly laid, westerly, a distance of two hundred thirty three (233) feet.....	497 49
Falmouth Street. From Riverside Street, south- erly a distance of three hundred forty-five (345) feet.....	940 10
Grace Street. From Burgess Street, northerly, a distance of three hundred (300) feet.....	635 93
Hawthorn Street. From Pine Street, southerly, a distance of three hundred (300) feet.....	621 19
Mansur Street. From terminus of sewer formerly laid easterly, a distance of sixty-one (61) feet.	187 42
Meadowcroft Street. From St. James Street, northerly, a distance of two hundred sixty (260) feet.....	598 05

## COST OF SEWERS LAID IN 1902.—Continued.

Meadowcroft Street. (Main Sewer, Completed.) From St. James Street, southerly to a point near Lundberg Street, a distance of one thousand, two hundred, eighty-four (1284) feet...	33,830 77
Middlesex Street. From Walker Street, westerly to Wilton Avenue, a distance of two hundred fifty-eight (258) feet.....	661 48
Mt. Hope Street. From Fifth Avenue, northerly a distance of three hundred forty-nine (349) feet.....	2,887 48
Perry Street. From terminus of Sewer formelry laid northerly a distance of three hundred thirty- eight (338) feet.....	897 40
Raymond Street. From Pine Street, southerly, a distance of three hundred eighteen (318) feet.	618 96
Sanborn Street. From Durant Street, easterly a distance of one hundred thirty-nine (139) feet.	158 13
St. James Street. From Meadowcroft Street, east- erly, a distance of six hundred forty-seven (647) feet.....	1,296 14
Shaffer Street. From terminus of sewer formerly laid southerly to Broadway, a distance of sixty four (64) feet.....	117 55
South Common. (Rebuilt.) Five hundred fifty- eight (558) feet.....	2,383 27
Tanner Street. (Rebuilt.) From Howard Street westerly, a distance of one hundred thirty- three (133) feet.....	3,236 66
Tenth Street. From Fremont Street, easterly, a distance of seven hundred seventy-two (772) feet.....	1,549 93
Cost of Sewers constructed in 1902.....	91,441 02
Cost of Sewers constructed previous to 1902.....	2,618,211 00
Total cost of construction of Sewers to Jan. 1, 1903	\$2,709,652 02



## REAL ESTATE OWNED BY THE CITY.

Memorial Building.....	\$ 200,000 00
City Hall.....	410,000 00
Huntington and Jackson Halls.....	80,000 00
Market House.....	75,500 00
City Scales.....	750 00
High School House on Anne and Kirk Streets....	250,000 00
High School Annex, Page and John Streets.....	105,000 00
Bartlett School-house on Clark Street.....	15,000 00
New Bartlett School-house, on Wannalancit Street	108,000 00
Butler School-house, on Gorham Street.....	63,000 00
Colburn School-house on Lawrence Street.....	17,000 00
Edson School-House, on Highland Street.....	25,000 00
Franklin School-house, on Branch Street.....	25,000 00
Green School House, on Merrimack Street.....	105,000 00
Moody School-house, on Rogers Street.....	80,000 00
Mann School-house, on Lewis Street.....	20,000 00
Varnum School-house, on Myrtle Street.....	110,000 00
Highland School-house on Pine Street.....	67,000 00
Pawtucket School-house, on Mammoth Road.....	53,000 00
Lincoln School-house.....	77,000 00
Oaklands School-house.....	12,000 00
Primary School-house, on Powell Street, near Liberty Street.....	8,000 00
Primary School-house, on Powell Street, near Chelmsford Street.....	21,000 00
Primary School-house, on London Street.....	1,000 00
Primary School-house, on School Street.....	7,500 00
Primary School-house, on Pond Street.....	6,000 00
Primary School-house, on High Street.....	9,000 00
Primary School-house, on Carter Street.....	49 000 00
Primary School-house, on Fayette Street.....	3,500 00
Primary School-house, on Cross Street.....	24,000 00
Primary School-house, on Billings Street.....	16,000 00
Primary School-house, on Cabot Street.....	23,500 00
Primary School-house, on Cornell and Middlesex Streets.....	16,000 00

## REAL ESTATE OWNED BY THE CITY—Continued.

Primary School-house, on West Stxth Street.....	7,000 00
Primary School-house, on Mammoth Road.....	1,500 00
Primary School-house, on Lakeview Avenue and Annex.....	9,500 00
Primary School-house, on Ames Street.....	9,500 00
Primary School-house, on Tenth Street.....	9,000 00
Primary School-house, on Favor Street.....	28,000 00
Primary School-house, on Cottage Street.....	4,500 00
Primary School-house, on Charles Street.....	20,000 00
Training School-house, on Charles Street.....	31,000 00
Primary School-house, on Chceever Street.....	12,000 00
Primary School-house, on London Street.....	5,000 00
Primary School-house, on Chapel Street.....	4,000 00
Primary School-house, on Central Street.....	13,500 00
Primary School-house, on Howard Street.....	5,000 00
Primary School-house, on Worthen Street.....	25,000 00
Primary School-house, on Lyon Street.....	20,000 00
Primary School-house, on Dover Street.....	13,500 00
Primary School-house, on Common Street.....	19,000 00
Primary School-house, Agawam Street.....	9,000 00
Primary School-house, Grand Street.....	5,000 00
Primary School-house, Kirk Street.....	18,000 00
Primary School-house, at Middlesex Village.....	2,000 00
Primary School-house, on Weed Street.....	10,500 00
Hose Carriage-house, on Fletcher Street.....	18,000 00
Hose Carriage-house, on Central Street.....	11,000 00
Hose Carriage-house, on Warren Street.....	11,000 00
Engine-house, on Gorham Street.....	15,000 00
Engine-house, on Lincoln Street.....	5,500 00
Engine-house and Ward-room, on Branch Street ..	22,000 00
Engine-house and Ward-room, on Fourth Street ..	15,000 00
Engine-house, on Palmer Street.....	90,000 00
Engine-house, and Ward-room, on High Street...	24,000 00
Engine-house, on Westford Street... ..	18,000 00
Chemical Engine-house, on Merrimack Street....	5,000 00

## REAL ESTATE OWNED BY THE CITY—Continued

City Farm and Buildings .....	200,000 00
Lands and Buildings on Fletcher Street.....	30,500 00
Lands and Buildings on Fletcher, Cross and Lagrange Streets, and Broadway.....	100,000 00
Public Landing in rear of Market House and Police Stable.....	9,500 00
Primary School-house, on Lexington Avenue.....	10,000 00
Primary School-house, on Moody Street.....	20,000 00
Primary School-house, on Pine Street.....	23,000 00
Lot of Land, on Chelmsford Street.....	5,000 00
Lot of Land, on Fletcher and Bowers Streets.....	20,000 00
Lot of Land, on First Street .....	190 00
Lot of Land, on Tenth Street.....	5,000 00
North Common .....	112,900 00
Engine House, on Lawrence Street .....	26,000 00
Engine House, on Mammoth Road.....	15,000 00
South Common .....	224,800 00
Mount Vernon Park .....	2,000 00
Belvidere Park.....	10,000 00
Wilson Park. ....	1,600 00
Rogers Fort Hill Park.....	150,000 00
Tyler Park .....	5,000 00
	<hr/>
	\$3,547,240 00

## WATER WORKS.

The Real Estate and Personal Property belonging to the City, occupied and used by the Water Works.....	\$4,375,888 67
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## BURIAL GROUNDS OWNED BY THE CITY.

No. 1 Burial Grounds, on School Street.

No. 2 Burial Ground, on Gorham Street.

Edson Cemetery, on Gorham Street . . . .

ACCOUNT OF CITY TREASURER AND COLLECTOR OF TAXES FOR THE YEAR 1902.

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LOWELL, MASS., Jan. 1, 1903.

TO THE HONORABLE THE CITY COUNCIL:

*Gentlemen:*—I have the honor to submit the following report of the receipts and expenditures of the City of Lowell for the financial year 1902.

Respectfully submitted,

ANDREW G. STILES,  
City Treasurer and Collector of Taxes.

Andrew G. Stiles, City Treasurer and Collector of Taxes, in  
DR. To cash received on account of :

Cash Balance Jan. 1, 1902	-	-	-	-	-	\$121,900 81
Assessors, Sundries	-	-	-	-	-	3 50
Anditor, Sundries	-	-	-	-	-	5 33
Cemeteries	-	-	-	-	-	3 83
City Clerk, Sundries	-	-	-	-	-	9 53
City Messenger, Sundries	-	-	-	-	-	6 30
City Treasurer, Sundries	-	-	-	-	-	5 93
Commons, Sundries	-	-	-	-	-	666 13
Engineering	-	-	-	-	-	9,351 64
Health Office, Sundries	-	-	-	-	-	11 46
Health, Small Pox	-	-	-	-	-	9 00
Health Yard, Sundries	-	-	-	-	-	143 00
Inspector of Wires Sundries	-	-	-	-	-	3 50
Law, Sundries	-	-	-	-	-	4 10
Mayor	-	-	-	-	-	5 28
Almshouse, Grain, Groceries and Provisions	-	-	-	-	-	8,164 34
Almshouse, Sundries	-	-	-	-	-	5,057 86
Out-Door Relief, Salaries	-	-	-	-	-	856 42
Out-Door Relief, General Sundries	-	-	-	-	-	215 53
Police, Salaries and Labor	-	-	-	-	-	2,203 75
Police, Sundries	-	-	-	-	-	12 85
Public Buildings, Labor	-	-	-	-	-	176 45
Public Buildings, Sundries	-	-	-	-	-	239 20
Registrars, Sundries	-	-	-	-	-	80
School-Houses, Labor	-	-	-	-	-	3,610 19
School-Houses, Sundries	-	-	-	-	-	814 51
Sewers, Maintenance	-	-	-	-	-	3,210 81
State Aid, Office Expenses	-	-	-	-	-	3 50
State Aid,	-	-	-	-	-	34 50
Military Aid	-	-	-	-	-	10 00
Soldiers Relief	-	-	-	-	-	21 00
Streets, Yard	-	-	-	-	-	658 01
Streets, Labor	-	-	-	-	-	707 79

Amount carried forward . . . . .

\$ 158,126 83

Account with the City of Lowell for the Financial Year 1902.

By cash paid on account of :

CR.

Abatement of Taxes . . . . .	650 38
Assessors, Salaries . . . . .	12,521 15
"    Sundries . . . . .	1,652 35
Auditor, Salaries . . . . .	3,295 05
"    Sundries . . . . .	588 05
Care of City Hall, Labor . . . . .	4,994 61
"    "    "    "    Police Officer . . . . .	1,003 75
"    "    "    "    Sundries . . . . .	1,346 71
City Cemeteries . . . . .	8,958 17
Edson Cemetery Annex . . . . .	15 75
City Clerk, Salaries . . . . .	4,102 85
"    "    Sundries . . . . .	1,154 55
City Messenger, Salaries . . . . .	1,200 00
"    "    Sundries . . . . .	397 07
"    "    Lighting . . . . .	993 04
City Sealer, Salaries . . . . .	350 00
"    "    Sundries . . . . .	74 15
City Treasurer, Salaries . . . . .	7,226 71
"    "    Sundries . . . . .	3,811 79
City Weigher, Salaries . . . . .	800 00
"    "    Sundries . . . . .	11 75
Clerk of Committees, Salaries . . . . .	1,200 00
"    "    Sundries . . . . .	159 80
Clerk of Common Council . . . . .	300 00
Commons, Supt. . . . .	1,200 00
"    Asst. Supt. . . . .	383 64
"    Foreman Fort Hill Park . . . . .	419 00
"    Labor . . . . .	6,582 04
"    Sundries . . . . .	2,804 53
Elections . . . . .	6,492 56
State Supervisors . . . . .	800 00
Engineering . . . . .	16,224 29
Fire Department, Salaries . . . . .	104,576 38

Amount carried forward

\$196,290 12



Andrew G. Stiles, City Treasurer and Collector of Taxes, in  
Dr. To cash received on account of :

Amount brought forward	\$158,126 83
Streets, Sundries - - - - -	4,217 29
Supply Sundries - - - - -	43 77
Watering Streets - - - - -	952 35
Water Works - - - - -	197,256 58
City Debt - - - - -	87,600 00
Schools - - - - -	25 02
Sewers, Construction - - - - -	442 75
Western Ave., School and Rock Street Sewers	2 25
Widening Andover Street - - - - -	2,200 00
Paving Broadway and Suffolk Streets - -	459 90
Macadamizing Canton Street. - - - - -	3 50
Sewer in Bowden Street - - - - -	33 44
Macadamizing Rogers and Nesmith Streets -	12 20
Macadamizing Gibson Street - - - - -	4 00
Observance of July 4th - - - - -	10 00
Rebuilding Rifle Range - - - - -	5 25
Purchase of Wood - - - - -	1,505 73
	<hr/>
	\$452,901 86

## GENERAL TREASURY FUND RECEIPTS.

City Cemeteries - - - - -	7,019 75
City Clerk - - - - -	1,334 56
City Treasurer - - - - -	2,027 10
City Sealer - - - - -	340 72
City Weigher - - - - -	153 33
Commons - - - - -	820 00
Fire Dept. - - - - -	229 54
Health Yard - - - - -	3,334 84
Huntington Hall - - - - -	4,447 00
Inspector of Milk - - - - -	81 50
Liquor Licenses - - - - -	171,243 00
Lighting - - - - -	44 50
	<hr/>
Amounts carried forward - - - - -	\$191,075 84
	<hr/>
	\$452,901 86

## Account with the City of Lowell for the Financial Year 1902.

By cash paid on account of :

CR.

Amount brought forward . . .	\$196, 290 12
Fire Department Sundries . . . . .	22,973 76
Fish Warden. Salaries . . . . .	40 00
Health Office, Salaries . . . . .	8,788 00
“ “ Sundries . . . . .	2,952 32
“ “ Small Pox . . . . .	6,626 20
Health Yard, Labor . . . . .	27,640 38
“ “ Sundries . . . . .	6,606 29
City Hall and Memorial Building, Labor . . . . .	2,943 00
“ “ “ “ “ Fuel . . . . .	2,100 15
“ “ “ “ “ Sundries . . . . .	768 39
Huntington Hall . . . . .	4,764 96
Incidentals . . . . .	4,126 45
Inspector of Animals . . . . .	500 00
“ “ Milk, Salaries . . . . .	2,126 00
“ “ “ Sundries . . . . .	183 65
“ “ Wires, Salaries . . . . .	2,516 00
“ “ “ Sundries . . . . .	531 61
Insurance . . . . .	4,710 01
Library . . . . .	16,000 00
Liquor Licenses . . . . .	43,060 75
Law, Salaries . . . . .	4,826 00
“ Sundries . . . . .	1,319 82
Lighting, Salaries and Sundries . . . . .	1,157 66
“ Electric Lights . . . . .	60,859 33
“ Gas Lights . . . . .	25,441 51
“ Gasoline . . . . .	10,942 64
Mayor, Salaries . . . . .	4,584 14
“ Stenographer . . . . .	465 30
Almshouse, Salary . . . . .	2,628 96
“ Grain, Groceries and Provisions . . . . .	31,008 30
“ Labor . . . . .	11,096 66
“ Sundries . . . . .	21,455 82
Amount carried forward . . . . .	\$532,034 18

Andrew G. Stiles, City Treasurer and Collector of Taxes, in  
 DR. To cash received on account of:

Amount brought forward . . . .	\$191,075 84	\$452,901 86
Almshouse - - - - -	919 41	
Out-Door Relief - - - - -	5,781 14	
Police - - - - -	10,489 09	
Public Buildings - - - - -	4,853 23	
Schools - - - - -	3,462 75	
Sewers - - - - -	91,819 92	
Streets - - - - -	7,815 67	
State Aid - - - - -	14,660 00	
Military Aid - - - - -	4,102 00	
Soldiers Relief - - - - -	539 60	
Watering Streets - - - - -	14,451 75	
Interest - - - - -	22,752 74	
Temporary Loans - - - - -	1,100,000 00	
General Treasury Fund, Incidentals - -	3,558 69	
Corporation Tax - - - - -	79,221 93	
Health, Small Pox - - - - -	2,769 03	
Addition and Improvement Police Station -	10,000 00	
Police Signal Boxes - - - - -	3,900 00	
Improvement Fort Hill Park, Extension -	5,000 00	
Law - - - - -	2 16	
Paving Kirk, Paige Streets, etc. - -	38,950 00	
Execution of Court, Coburn and Keefe -	3,200 00	
Extension of "B" Street - - - - -	3,330 00	
Corporation Tax Fund - - - - -	10,000 00	
Paving Merrimack and Pleasant Streets -	23,155 00	
Improvement of School and Fire Houses -	3,500 00	
Insurance - - - - -	3,000 00	
Rebuilding Rifle Range - - - - -	2,000 00	
Repairs on City Stables and Sheds - -	3,500 00	
Widening Parker Street - - - - -	4,850 00	
Excise Tax - - - - -	7,155 43	
State Tax - - - - -	1,200 00	
Amount carried forward . . . .	\$1,681,015 38	\$452,901 86

## Account with the City of Lowell for the Financial Year 1902.

By cash paid on account of :

CR.

Amount brought forward . . . . .	\$532,034 18
Out-Door Relief, Salaries . . . . .	4,638 92
“ “ “ General Sundries . . . . .	55,832 64
“ “ “ Transportation, etc. . . . .	757 86
Police, Salaries and Labor . . . . .	128,764 37
“ Board and Clerk . . . . .	4,700 00
“ Sundries . . . . .	6,577 40
Pound Keeper . . . . .	5 00
Public Buildings, Salaries . . . . .	2,339 00
“ “ Labor . . . . .	7,412 12
“ “ Sundries . . . . .	7,177 04
Registrars, Salaries . . . . .	2,898 75
“ Printing, etc, . . . . .	1,034 63
Rifle Range . . . . .	702 48
School Houses, Labor . . . . .	48,221 76
“ “ Sundries . . . . .	9,266 99
Sewers, Maintenance . . . . .	26,691 24
State Aid, Salaries and Sundries . . . . .	2,105 01
State Aid . . . . .	15,135 00
Military Aid . . . . .	6,332 00
Soldiers Relief . . . . .	8,633 53
Streets, Salaries . . . . .	3,900 00
“ Yard . . . . .	10,798 39
“ Labor . . . . .	85,943 29
“ Sundries . . . . .	49,145 59
Paving Arch Street . . . . .	426 26
Supply, Salaries . . . . .	5,311 52
“ Sundries . . . . .	951 96
Watering Streets . . . . .	14,194 35
Water Works . . . . .	208,400 99
City Debt . . . . .	377,100 00
Interest . . . . .	124,414 55
Temporary Loans . . . . .	1,000,000 00
Amount carried forward . . . . .	<u>\$2,751,846 82</u>

Andrew G. Stiles, City Treasurer and Collector of Taxes, in  
 DR. To cash received on account of :

Amounts brought forward . . .	\$1,681,015 38	\$452,901 86
National Bank Tax - - - - -	8,166 51	
Street Railway Tax - - - - -	7,884 96	
General Treasury Fund Blanket Loan - -	20,000 00	
Purchase of Wood - - - - -	6,500 00	
Taxes 1898 - - - - -	16 00	
“ 1899 - - - - -	4,485 98	
“ 1900 - - - - -	126,045 85	
“ 1901 - - - - -	164,210 06	
“ 1902 - - - - -	1,127,183 57	
	<hr/>	\$3,145,508 31
		<hr/>
		\$3,598,410 17
		<hr/>

Account with the City of Lowell for the Financial Year 1902.

By cash paid on account of:

CR.

Amount brought forward . . .	\$2,751,846 82
Sinking Funds . . . . .	43,300 00
Claim of H. P. Graves . . . . .	1,000 00
Observance of Labor Day . . . . .	988 00
County Tax . . . . .	78,689 73
Schools . . . . .	284,680 00
Police Underground Wires . . . . .	894 48
Fire Department, Underground Wires . . . . .	355 88
Meadowcroft Street, Sewer . . . . .	4,584 49
Repairing City Stables . . . . .	1,148 78
Sewers, Construction . . . . .	88,441 01
Claim of John Keefe . . . . .	980 36
“ “ B. C. Shaw . . . . .	150 00
Salary of Robt. V. Saunders . . . . .	791 68
Western Avenue Sewer . . . . .	280 37
Purchase of Swan Meadow . . . . .	275 00
Widening Andover Street . . . . .	4,382 76
Corporation Tax Fund . . . . .	12,155 39
Unpaid Claims 1901 . . . . .	824 57
General Treasury Fund Taxes . . . . .	295 16
“ “ “ Revenue . . . . .	5 88
Paving Broadway and Suffolk Streets . . . . .	53,833 98
Lowell Textile School . . . . .	8,000 00
Macadamizing Canton Street . . . . .	861 26
Sewer Chase Street . . . . .	550 00
Sewer Bowden Street . . . . .	1,108 44
Change in Line, Merrimack and Pawtucket Sts. . . . .	531 00
Rebuilding Gorham Street Engine House . . . . .	11,940 11
Care of Memorial Hall Relics . . . . .	200 00
Police Signal Boxes . . . . .	1,904 26
Macadamizing Rogers and Nesmith Street . . . . .	1 930 48
“ Gibson Street . . . . .	611 95
Central and Chapel Street Sewer . . . . .	573 63
Amount carried forward . . . . .	\$3,358,120 47





Account with the City of Lowell for the Financial Year 1902.

By cash paid on account of :

Cr.

Amount brought forward . . . . .	\$3,358,120 47	
Central Street Sewer . . . . .	400 00	
Portrait of Wm. F. Courtney . . . . .	300 00	
Memorial Day, 1902 . . . . .	1,150 00	
Old Home Week, 1902 . . . . .	1,498 20	
Portraits of Wm. McKinley & Jeremiah Crowley . . . . .	400 00	
Municipal Band Concerts . . . . .	649 27	
Improvement Fort Hill Park Extension . . . . .	4,955 38	
Observance July 4th . . . . .	1,753 05	
Addition and Improvement Police Station . . . . .	8,330 74	
Macadamizing Chapel and Keene Streets . . . . .	1,541 85	
“ Ames and Watson “ . . . . .	1,992 11	
“ Agawam Street . . . . .	3,589 75	
Paving Kirk, Paige Streets, etc. . . . .	37,069 85	
“ Merrimack & Pleasant Streets . . . . .	16,712 08	
Extension of “B” Street . . . . .	3,186 64	
Widening Parker Street . . . . .	3,323 26	
Repairs on Central Bridge . . . . .	213 54	
Sanitariums in Schools . . . . .	74 45	
Rebuilding Rifle Range . . . . .	4,053 82	
West Street Outlet . . . . .	687 02	
Court Street Sewer . . . . .	535 17	
Purchase of Wood . . . . .	6,057 32	
Grade Crossing Tax . . . . .	3,574 37	
Repairs on City Stables and Sheds . . . . .	613 19	
Slabs for School Urinals . . . . .	490 00	
State Tax. . . . .	42,474 29	
National Bank Tax . . . . .	11,035 04	
State Highway Tax . . . . .	115 50	
		\$3,514,896 36
Cash balance Jan. 1, 1903 . . . . .		83,513 81
		<u>\$3,598,410 17</u>

# REPORT OF THE COMMISSIONERS OF THE SINKING FOR THE YEAR 1902.

LOWELL, MASS., JAN. 1, 1903.

TO THE HONORABLE THE CITY COUNCIL OF LOWELL:

*Gentlemen:*—The Commissioners of Sinking Funds of the City of Lowell have the honor to submit the following report of the several Sinking Funds of said City, and of the Hapgood Wright Centennial Trust Fund, for the year 1902.

Full value of all Sinking Funds Jan. 1, 1903.....	\$685,438 83
Full value of all Sinking Funds Jan. 1, 1902.....	669,303 45
Increase during the year 1902 .....	<u>\$16,135 38</u>
Value of the Water Loan Sinking Funds Jan. 1, 1903.....	\$343,201 43
Value of the Water Loan Sinking Funds Jan. 1, 1902.....	312,894 98
Increase during the year 1902 .....	<u>\$30,306 45</u>
Value of all other Sinking Funds Jan. 1, 1903.....	\$342,237 40
Value of all other Sinking Funds Jan. 1, 1902.....	356,408 47
Decrease during the year 1902.....	<u>\$14,171 07</u>
Total Increase as above....	<u>\$16,135 38</u>

Value of Hapgood Wright Centennial Trust Fund	
Jan. 1, 1903.....	\$3,023 84
Value of Hapgood Wright Centennial Trust Fund	
Jan. 1, 1902 .....	2,913 35
Increase during the year 1902.....	<u>\$110 49</u>

A statement of the receipts, payments and present value of the several Sinking Funds, and a list of the securities in each fund follows :

	SECURITIES.	CASH.	TOTAL.
<b>Water Loan Sinking Fund.</b>			
On hand Jan. 1, 1902.....	\$ 264,500 00	\$ 369 16	\$ 264,869 16
Received during 1902:			
Cash—Annual Appropriation.....		16,000 00	
Income on Investments.....		11,332 50	
Income on Bank Deposits.....		230 99	
Securities Matured.....		5,500 00	
Securities bought in 1902....	13,000 00		
	\$ 277,750 00	\$ 33,432 65	
Paid for Securities in 1902.....		14,137 48	
On hand Jan. 1, 1903.....	272,000 00	\$ 19,295 17	\$ 291,295 87
Increase during 1902 .....			
Securities belonging to this Fund.			\$ 6,427 01
3 City of Springfield coupon bonds \$1,000, 6 per cent.....	\$ 3,000 00		
4 City of Lewiston coupon bonds, \$4,000, 5 per cent.....	4,000 00		
11 Town of Sharon coupon bonds, \$1,000, 4 per cent.....	11,000 00		
12 Town of Athol coupon bonds, \$1,000, 4 per cent ..	12,000 00		
15 City of Portsmouth coupon bonds, \$1,000, 4 per cent.....	15,000 00		
14 City of Waterville coupon bonds, \$4,000, 4 per cent.....	14,000 00		
9 City of Saginaw coupon bonds, \$1,000, 4 per cent.....	9,000 00		
8 City of Everett registered bonds, \$1,000, 4 per cent.....	8,000 00		
1 City of Boston registered bonds, \$16,000 4 per cent ..	61,000 00		
1 City of Lowell registered bonds, \$15,000, 3½ per cent.....	15,000 00		
4 City of Saginaw coupon bonds, \$1,000, 4 per cent.....	4,000 00		
15 Fitchburg R. R. coupon bonds \$1,000, 4 per cent.....	15,000 00		
8 C. B. & Q. R. R., Neb. Ext. coupon bonds, \$1,000 4 per cent.....	8,000 00		
4 Illinois Central Cairo Bridge coupon bonds, 4 per cent.....	4,000 00		
8 Portland & Odgensburg coupon bonds, \$1,000 4 per cent.....	18,000 00		
1 Boston & Maine R. R. registered bond, \$10,000 4½ per cent.....	10,000 00		
30 Northwestern Union R. R. Co. coupon bonds 7 per cent.....	15,000 00		
9 New York, Lackawanna & Western R. R. coupon bonds 6 per cent.....	9,000 00		
48 Town of Northfield coupon bonds, \$5,00 3½ per cent....	24,000 00		
13 City of Providence registered bonds, \$1,000 5 per cent.....	13,000 00		
Cash on deposit in Appleton National Bank at 3½ per cent.....			\$ 272,000 00
			19,295 17
			\$ 291,295 17

	SECURITIES.	CASH.	TOTAL.
<b>High Service Water Loan Sinking Fund.</b>			
On hand Jan. 1, 1902 .....	\$ 43,000 00	\$ 5,025 82	\$ 48,025 82
Received during 1902.....			
Cash—Annual Appropriation.....		1,800 00	
Income on Investments.....		2,110 00	
Income on Bank Deposits .....		180 44	
Securities matured.....		1,000 00	
Securities bought in 1902.....	9,000 00		
	52,000 00	10,116 26	
Paid for Securities in 1902....		9,210 00	
	51,000 00	906 26	51,906 26
Increase during the year 1902.....			3,880 44
Securities belonging to this Fund.			
2 City of Beverly coupon bonds, \$1000, 4 per cent	2,000 00		
4 City of Providence coupon bonds, \$1000, 4 per cent .....	4,000 00		
1 City of Cambridge coupon bonds. \$1000, 6 per cent .....	1,000 00		
4 Town of Danvers coupon bonds, \$1000. 5 per cent .....	4,000 00		
3 Town of Rockport coupon bonds, \$1000, 4 per cent.....	3,000 00		
1 City of Portsmouth coupon bonds, \$1000, 4 per cent.....	1,000 00		
4 City of Saginaw coupon bonds, \$1000, 4 per cent	4,000 00		
4 C. B. & Q. Neb. Ext coupon bonds, 4 per cent	4,000 00		
1 City of Lynn, Registered bond, \$6000, 4 per cent.....	6,000 00		
4 Portland & Ogdensburg coupon bond, \$1000, 5 per cent.....	4,000 00		
7 Winona & St. Peter R. R. Ext. coupon bond, \$1000, 7 per cent .....	7,000 00		
2 N. Y. & Lackawanna & Western R. R., coupon bonds, \$1000, 6 per cent .....	2,000 00		
9 City of Lynn, Registered bonds, \$1 00, 4 per cent.....	9,000 00		51,000 00
Cash in Appleton National Bank, \$1000, at 3½ per cent .....			906 26
			\$ 51,906 26

	SECURITIES.	CASH.	TOTAL
<b>Lowell High School Sinking Fund.</b>			
On hand Jan. 1, 1902.....	\$ 33,710 29	\$ 4,760 99	\$ 38,471 28
Received during 1902.....			
Cash—Annual Approp. ation.....		3,000 00	
Income on Investments.....		1,387 36	
Income on Bank Deposits.....		153 31	
Securities bought in 1902.....	7,000 00		
Paid for Securities in 1902.....		9,301 66	
		7,651 62	
On hand Jan. 1, 1903....	40,710 29	1,650 04	42,360 33
Increase during the year.....			\$ 3,889 05
<b>Securities belonging to this Fund.</b>			
1 City of Keene coupon bond, \$500, 4 per cent.	\$ 500 00		
1 City of Salem coupon bond, \$1,000, 5 per cent.	1,000 00		
1 City of Lynn coupon bond, \$1,000, 5 per cent.	1,000 00		
12 City of Taunton coupon bonds, \$1,000, 4 per cent.	12,000 00		
7 City of Portsmouth coupon bonds, \$1,000, 4 per cent.	7,000 00		
4 City of Indianapolis coupon bonds, \$1,000, 4 per cent.	4,000 00		
4 Fitchburg R. R. coupon bonds, \$1,000, 4 per cent.	4,000 00		
1 City of Lowell Registered bond, \$210 29, 3½ per cent.	210 29		
1 C. B. & Q. Neb. Ext. R. R. coupon bond, \$1,000, 4 per cent.	1,000 00		
7 Illinois Central, Cairo Bridge, R. R., coupon bonds, \$1,000, 4 per cent.	7,000 00		
1 N. Y. Lackawanna & Western R. R., coupon bond, \$1,000, coupon bond, 6 per cent.	1,000 00		
2 City of Saginaw coupon bonds, \$1,000 4 per cent.	2,000 00		40,710 29
Cash on deposit in Appleton National Bank at 3½ per cent.....		1,650 04	\$ 42,360 33

	SECURITIES.	CASH.	TOTAL.
<b>Extension of Rogers Fort Hill Park Loan, Sinking Fund.</b>			
On hand Jan, 1, 1902 .....	\$ 40,000 00	\$ 7,330 19	\$ 47,330 19
Received during 1902.....			
Cash—Annual Appropriation.. ..		6,000 00	
Income on Investments.....		1,950 00	
Income on Bank Deposits.....		228 39	
Securities Matured .....		1,000 00	
Securities bought in 1902.....	9 703 33		
Paid for Securities in 1902.....	49,703 33	16,508 58 9,703 33	
On hand Jan. 1, 1903.....	48,703 33	6,805 25	55,508 58
Increase during the year 1902.....			\$ 8,178 39
Securities belonging to this Fund.			
3 Town of Danvers coupon bonds, \$1000, 4 per cent .....	\$ 3,000 00		
1 City of Brockton Registered bond, \$1000, 4 per cent.....	1,000 00		
1 City of Lynn Registered bond, \$5,000, 4 per cent .....	5,000 00		
6 City of Malden coupon bonds, \$1,000, 4 per cent.	6,000 00		
6 City of Indianapolis, coupon bonds, \$1,000, 4 per cent .....	6,000 00		
1 City of Saginaw, coupon bond, \$1000, 4 per cent.	1,000 00		
4 C. B. & Q., Neb. Ext., R. R. coupon bonds, \$1000 4 per cent .....	4,000 00		
11 Winona & St. Peter R. R., Ext. coupon bonds \$1000, 7 per cent. ....	11,000 00		
2 N. Y. & Lackawana & Western R. R., coupon bonds, \$1000, 6 per cent .....	2,000 00		
1 Town of Lexington note, \$9.703 33, 4 per cent.	9,703 33		48,703 33
Cash on deposit in Appleton National Bank, at 3 ½ per cent.....			6,805 25
			\$ 55,508 58



	SECURITIES.	CASH.	TOTAL.
<b>New School-Houses Sinking Funds.</b>			
On hand Jan. 1, 1902.....	\$ 14,000 00	\$ 5,102 21	\$ 19,102 21
Received during 1902:			
Cash—Annual Appropriation.....		\$ 4,000 00	
Income on Investments.....		640 00	
Income on Bank Deposits.....		157 68	
Securities bought in 1902.....	\$ 5,000 00		
	\$ 19,000 00	\$ 9,899 89	
Paid for securities in 1902.....		5,116 65	
On hand Jan. 1, 1903.....	\$ 19,000 00	\$ 4,783 23	\$ 23,783 24
Increase during the year 1902.....			\$ 4,681 03
Securities belonging to this fund.			
3 City of Indianapolis coupon bonds, \$1,000, 4 per cent .....	\$ 3,000 00		
3 C. B. & Q. Neb. Ex. R. R. coupon bonds, \$1,000, 4 per cent .....	3,000 00		
5 Illinois Central Cairo Bridge coupon bonds, \$1,000, 4 per cent.....	5,000 00		
2 Winona & St. Peter R. R. Ex. coupon bonds, \$1,000, 7 per cent..	2,000 00		
1 N. Y. Lackawana R. R. coupon bonds, \$1,000, 6 per cent .....	1,000 00		
5 City of Lynn reg. bonds, \$1,000, 4 per cent....	5,000 00		\$ 19,000 00
Cash on deposit in Appleton National Bank at 3½ per cent.....			\$ 4 783 24
			\$ 23,783 24

	SECURITIES.	CASH.	TOTAL.
<b>Intercepting Sewer Sinking Fund.</b>			
On hand Jan. 1, 1902.. .. .	\$101,500 00	\$ 28,246 90	\$129,746 90
Received during 1902.. .. .			
Cash—Annual Appropriation.. .. .		5,000 00	
Income on Investments .. . . .		8,206 57	
Income on Bank Deposits.... . . .		810 37	
Securities Matured..... . . . .		9,500 00	
Securities Sold..... . . . .		46,000 00	
Securities bought in 1902 .. . . .	39,706 04	97,763 84 39,706 04	
Paid for Securities .. . . .		58,057 80	
Paid City of Lowell for bonds due Oct. 2, 1902.. .		56,000 00	
On hand Jan. 1, 1903 .. . . .	85,706 04	2,657 80	87,763 84
Decrease during the year 1902..... . . . .			41,983 06
Securities belonging to this Fund.			
3 City of Providence Registered bonds, \$10,000, 5 per cent..... . . . .	\$ 30,000 00		
1 City of Providence coupon bond, \$1,000, 5 per cent..... . . . .	1,000 00		
4 Town of Bradford registered bonds, \$500, 4 per cent..... . . . .	2,000 00		
1 City of Lowell registered bond, \$2,000, 3½ per cent..... . . . .	2,000 00		
2 St. Johnsbury Lake Champlain R. R., coupon bonds, \$2,000, 5 per cent..... . . . .	2,000 00		
9 Boston & Maine R. R., coupon bonds, \$1,000, 4 per cent..... . . . .	9,000 00		
Note of Henry I. Dow, 3¼ per cent..... . . . .	10,000 00		
1 City of Quincy, note, 4¼ per cent .. . . .	29,706 04		85,706 04
Cash on deposit in Appleton National Bank at 3½ per cent..... . . . .			2,057 80
			<u>\$ 87,763 84</u>

	SECURITIES.	CASH.	TOTAL.
<b>City Hall and Memorial Building, Sinking Fund.</b>			
On hand Jan. 1, 1902 .....	\$ 118,000 00	\$ 3,757 00	\$ 121,757 89
Received during 1902:			
Cash—Annual Appropriation .....		7,500 00	
Income on Investments .....		4,810 00	
Income on Bank Deposits .....		158 51	
Securities Matured .....		2,500 00	
Securities bought in 1902 .....	12,000 00		
		\$ 18,000 00	
Paid for securities in 1902 .....		13,404 99	
On hand Jan. 1, 1903 .....	\$ 127,500 00	\$ 5,321 41	\$ 132,821 41
Increase during the year 1902 .....			\$ 11,063 52
Securities belonging to this fund.			
8 Bradford coupon bonds, \$1,000, 4 per cent. ....	\$ 8,000 00		
5 City of Brockton coupon bonds, 1,000, 4 per cent. ....	5,000 00		
1 Town of Reading coupon bonds, \$1,000, 4 per cent. ....	1,000 00		
6 Town of Wrentham coupon bonds, \$1,000, 4 per cent. ....	6,000 00		
9 Town of Arlington coupon bonds, \$1,000, 4 per cent. ....	9,000 00		
7 City of Portsmouth coupon bonds, \$1,000, 4 per cent. ....	7,000 00		
8 Town of Stoughton coupon bonds, \$1,000, 4 per cent. ....	8,000 00		
7 City of Saginaw coupon bonds, \$1,000, 4 per cent. ....	7,000 00		
6 Fitchburg R. R. coupon bonds, \$1,000, 4 per cent. ....	6,000 00		
1 City of Boston registered bond, \$21,000, 4 per cent. ....	21,000 00		
1 City of Brockton registered bond, \$1,000, 4 per cent. ....	1,000 00		
10 C. B. & Q. Neb. Ext. R. R. coupon bonds, 4 per cent. ....	10,000 00		
19 Illinois Central Cairo Bridge coupon bonds, 4 per cent. ....	19,000 00		
2 Milwaukee, Lake Shore and West R. R. coupon bonds, \$1,000, 5 per cent. ....	2,000 00		
5 N. Y. Lackawanna & Western R. R. coupon bonds, \$1,000, 6 per cent. ....	5,000 00		
7 City of Indianapolis coupon bonds, \$1,000, 4 per cent. ....	7,000 00		
11 Town of Northfield coupon bonds, \$500, 3½ per cent. ....	5,500 00		127,500 00
Cash on deposit in Appleton National Bank at 3½ per cent. ....			5,321 41
			<u>\$ 132,821 41</u>

	SECURITIES.	CASH.	TOTAL.
<b>Hapgood Wright Centennial Trust Fund.</b>			
On hand Jan. 1, 1902.....		\$ 2,913 35	\$ 2,913 35
Received in 1902:			
Cash—Interest on Bank Deposits.....		110 49	
On hand Jan. 1, 1903.....			3,023 84
Increase during the year 1902.....			\$ 110 49
Securities belonging to this fund:			
Cash Deposited in Lowell Institution for Savings \$ 614 53	\$ 614 53		
Cash Deposited in City Institution for Savings.. 2,409 31	2,409 31		\$ 3,023 84

Respectfully submitted,

AUSTIN K. CHADWICK.

FRED A. BUTTRICK,

CHARLES L. KNAPP.

*Commissioners of Sinking Funds for the City of Lowell for the year 1902.*

STATEMENT OF CITY TREASURER RELATING TO  
SPECIAL FUNDS FOR CARE OF PUBLIC  
BURIAL GROUNDS.

LOWELL, MASS., JAN. 1, 1903.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF  
LOWELL:

*Gentlemen:*—I have the honor to submit the following statement of special funds in my hands, deposited for perpetual care of lots in the Public Burial Grounds of the City of Lowell :

On hand Jan. 1, 1903	-	-	-	-	-	-	\$20,775 00
Received during the year from Amantha H. Perham	-						100 00
Mrs. S. K. Hayes	-	-	-	-	-	-	100 00
Mrs. Wm. Gerry Slade	-	-	-	-	-	-	100 00
Marshall M. Hayden, Administrator	-	-	-	-	-	-	100-00
Levi Sprague	-	-	-	-	-	-	100 00
Mary E. Hamblett	-	-	-	-	-	-	100 00
Mrs. Matilda Brewster	-	-	-	-	-	-	100 00
James and Henry Hunt	-	-	-	-	-	-	100 00
William A. Delmage	-	-	-	-	-	-	100 00
Jennie B. Sherman	-	-	-	-	-	-	100 00
D. S. Spalding	-	-	-	-	-	-	100 00
Clara S. Mahoney	-	-	-	-	-	-	100 00
James Lynch	-	-	-	-	-	-	100 00
Wm. B. Jones	-	-	-	-	-	-	100 00
Wilson Kimball	-	-	-	-	-	-	100 00
Hattie M. Wilson	-	-	-	-	-	-	100 00
James Robertson	-	-	-	-	-	-	100 00
Mrs. E. A. Dean	-	-	-	-	-	-	200 00
A. L. Sturtevant, Executor	-	-	-	-	-	-	200 00
Oliver A. Libby, Chairman	-	-	-	-	-	-	300 00
Elizabeth Bean	-	-	-	-	-	-	100 00
W. S. Tabor John R. Redman & Matilda Ayers	-	-	-	-	-	-	100 00
Philip R. Hovey	-	-	-	-	-	-	100 00
J. L. Dearborn	-	-	-	-	-	-	100 00
Chas. W. Howarth	-	-	-	-	-	-	100 00
Nelson E. Huntley, Secretary	-	-	-	-	-	-	100 00
Amount carried forward	-	-	-	-	-	-	\$ 23,775 00

Amount brought forward	.	.	.	-	-	-	-	\$23,775 00
Adam Cochrane	-	-	-	-	-	-	-	100 00
Maria L. Cahoon	-	-	-	-	-	-	-	100 00
Jennie Bean	-	-	-	-	-	-	-	100 00
Albert C. Stevens, Estate	-	-	-	-	-	-	-	100 00
Sarah L. Beede	-	-	-	-	-	-	-	100 00
David Wellman	-	-	-	-	-	-	-	100 00
John J. Kennedy and Nancy A. Cox	-	-	-	-	-	-	-	100 00
John Ingham	-	-	-	-	-	-	-	100 00
Heirs of Richard Ingham	-	-	-	-	-	-	-	100 00
Margaret Denning	-	-	-	-	-	-	-	100 00
James F. Choate	-	-	-	-	-	-	-	100 00
Leonard K. Hartley	-	-	-	-	-	-	-	100 00
Elbridge C. Howard	-	-	-	-	-	-	-	100 00
Thomas W. Thompson	-	-	-	-	-	-	-	100 00
Thomas Cooke	-	-	-	-	-	-	-	100 00
Margie L. Crawford	-	-	-	-	-	-	-	200 00
Martha H. Fletcher	-	-	-	-	-	-	-	100 00
Margaret E. McAskie	-	-	-	-	-	-	-	100 00
Mary Batley Johnson	-	-	-	-	-	-	-	100 00
Chas. A. McIntire, Administrator	-	-	-	-	-	-	-	100 00
John W. Murkian, Jr.	-	-	-	-	-	-	-	100 00
Margaret McCracken	-	-	-	-	-	-	-	100 00
Gertie A. Stevenson	-	-	-	-	-	-	-	100 00
Imelda R. Marsigny	-	-	-	-	-	-	-	100 00
								<u>\$26,275 00</u>

The following is invested as follows :

Washington Savings Institution	-	-	-	-	-	-	\$3,400 00
City Institutions for Savings	-	-	-	-	-	-	3,250 00
Lowell Five Cent Savings Bank	-	-	-	-	-	-	3,125 00
Traders National Bank	-	-	-	-	-	-	3,150 00
Merrimack River Savings Bank	-	-	-	-	-	-	3,400 00
Mechanics Savings Bank	-	-	-	-	-	-	3,550 00
Lowell Institution for Savings	-	-	-	-	-	-	3,400 00
Central Savings Bank	-	-	-	-	-	-	3,000 00
							<u>\$26,275 00</u>

Respectfully yours,

ANDREW G. STILES,

*City Treasurer and Collector of Taxes.*

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THIRTIETH  
ANNUAL REPORT  
OF THE  
LOWELL WATER BOARD

TO THE  
City Council of the City of Lowell, Mass.

AND THE  
Reports of the Superintendent of Water Works and of  
the City Engineer to the Water Board for 1902.



LOWELL, MASS.:  
THE LIBBY PRINTING COMPANY.  
1903.

CITY OF LOWELL.

---

IN BOARD OF ALDERMEN,  
February, 1903.

Received and ordered on file. Sent down for  
concurrence.

GIRARD P. DADMAN,  
*City Clerk.*

---

IN COMMON COUNCIL,  
Received and ordered on file in concurrence.  
FRANK M. DOWLING,  
*Clerk.*

# WATER DEPARTMENT, 1902.

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## WATER BOARD.

FRANK L. WEAVER, President.

Term expires second Monday in March, 1904

MICHAEL J. DOWD,

Term expires second Monday in March, 1905.

AUGUST FELS,

Term expires second Monday in March, 1906.

HERBERT C. TAFT,

Term expires second Monday in March, 1903.

JOHN W. CRAWFORD, Secretary and Clerk.

---

ROBERT J. THOMAS, Superintendent.

GEORGE BOWERS, City Engineer.

---

D. B. H. BARTLETT, Engineer.

THOMAS McLOUGHLIN, Engineer.

JOHN B. HENRY, Keeper Reservoir.

THOMAS F. DOYLE, Foreman.

WILLIAM JOYCE, Assistant Foreman.

JOHN E. LOWNY, Meter Inspector.

ALBERT HALLOWELL, Foreman Shop.

A. F. COGER, Hydrants and Gates.

THOMAS ROGERS, Services.

---

## OFFICE.

GEORGE E. WORTHEN, Service Clerk.

GERTRUDE W. BYAM, Bookkeeper.

JULIA J. RAFTER, Assistant Bookkeeper.

---

## INSPECTORS.

ROBERT GARDNER.

FREDERICK A. BARON.

MICHAEL H. McCUE.

GEORGE F. TILTON.

WALTER P. WILEY.



# Report of the Water Board.

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OFFICE OF THE WATER BOARD, }  
CITY HALL, }  
LOWELL, MASS., Jan. 1, 1903. }

*To His Honor the Mayor and the City Council of  
the City of Lowell :*

The Water Board of the City of Lowell herewith respectfully submits its report for the year ending December 31st, 1902.

On May 21st occurred the death of our honored Mayor, Hon. Charles A. R. Dimon, who was a member of the Water Board in 1884, '85, '86 and 1887 and served as President of the Board in 1887. On May 23rd the following resolutions to his memory were adopted by the Water Board, and it is fitting that they should be given a place in this report as a testimonial to his worth, and a record of our appreciation of him as a citizen.



## RESOLUTIONS.

The Lowell Water Board, with profound sorrow, unite with their fellow citizens in deploring the death of Charles A. R. Dimon, Mayor of the City of Lowell and formerly a member of this Board for four years and its President for one year, and appreciating his worth as a gallant soldier whose early manhood was given to the nation to assist in the preservation of the Union and the perpetuation of freedom; as a public official honored by his fellow citizens of Lowell in various positions of trust, including the highest office in their gift, and bringing to those offices a conscientious devotion to duty, an unimpeachable honesty, and a thorough business training which rendered his services invaluable; as a private citizen foremost in every work of benevolence and charity to whom the poor and the suffering looked as a true friend, we do hereby tender to his bereaved family our sincere sympathy and express our sorrow for the loss they and the municipality have sustained by his death.

*Resolved:* That these resolutions be entered upon the records of this Board and that a copy be sent to the family of the deceased.

(Signed)

FRANK L. WEAVER,  
AUGUST FELS,  
MICHAEL J. DOWD,  
HERBERT C. TAFT.

The most important work of the year has been the extension of 10" pipe in Princeton Street to the City line 3168 feet, also connecting a number of short streets in that locality with 6" pipe. The cost of this amounted to \$5,874.89 although the 10" pipe was purchased some years ago for this

purpose and did not come out of this year's revenue. The Board was influenced to make this extension this year from the fact that every year for the last five years there has been a petition presented praying for this extension from the people living in Dingwell, Corey and Cashin Streets and the extension seemed to the Board a necessity that the residents in that part of the City were entitled to.

The suction mains at the Cook plant have been lowered so as to prevent their freezing, thus obviating the necessity of pumping water during the winter to prevent the freezing and consequent damage and uselessness of the plant if suddenly called into use in emergency.

The scarcity and high price of coal has been a question of anxious concern during the year and in one or two instances the outlook was most serious with only twenty-four hours' supply in sight, but sufficient coal was obtained to keep the plant running through the stringency, the extra expense to the department for fuel this year over last year will reach nearly Five Thousand Dollars.

The work of the department has been continued on the same general lines as heretofore and a study of these reports will show that it has been our aim to promote the permanency and efficiency

of the plant towards a more economical working as it increases in magnitude.

The Secretary's report shows total receipts of \$197,256.58, a decrease of \$3,841.87, and expenditures of \$208,400.99, a decrease of \$12,543.68 from last year, leaving a balance of \$7,165.19, a decrease of \$11,144.41. The charges for water decreased \$19,617.14 for which the large number of meters added last year is mainly responsible; also the consumption of water is the lowest for ten years. The financial transactions, the work of construction and maintenance and the details of pumping are fully set forth in the reports of the Secretary, Superintendent and Engineer, to which you are respectfully referred.

The last annual installment of \$10,000.00 on the first driven well loan of \$100,000.00 for driven wells in 1892 was paid during the year and the total debt on Water Works was reduced \$31,600.00 leaving total debt at \$1,205,500.00.

The charges for metered water are 79% of the whole, while the water through meters is only 34% of the total amount used. Of the 923 City meters set in 1901, 377 have been purchased 123 places have been put on faucet rates and 426 are still on metered rates as City meters but all who show a less rate by meter will be invited to purchase the meter or they will be charged faucet rates.

During the early part of the year the people of North Chelmsford secured the passage of an Act through the legislature, empowering the City of Lowell to furnish the Town of Chelmsford with water; the people of Dracut also obtained a similar Act, both Acts being passed within a short time of each other.

Following the passage of these Acts, petitions were presented to the City Council that water be furnished the villages of No. Chelmsford and the "Navy Yard" in Dracut, and a Committee consisting of Aldermen Barton and Brown and Councilmen Laporte, Brown and Welch were appointed to act in conjunction with the Water Board to whom was referred these petitions; hearings were had for each party, but no report has been made to the City Council by the Committee of the same, and the matter stands in abeyance.

FRANK L. WEAVER,  
MICHAEL J. DOWD,  
HERBERT C. TAFT.  
AUGUST FELS.



LOWELL WATER WORKS OFFICE,

January 1, 1903.

TO THE LOWELL WATER BOARD: .

Gentlemen :—Herewith I submit figures detailing the finances of the Lowell Water Works for the year ending December 31st, 1902.

J. W. CRAWFORD, *Clerk.*

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1902.

TABLE I	CHARGES.					RECEIPTS.						
	WATER.			Other than Water	Total Charges 1901	Total Charges 1902	By ACCOUNTS					
	Rate	Metered	Total				Receipts	Discounts	Abatements	Due		
Transfer												
Feb.	47 22		47 22	1,287 25	34,639 92	44,066 64	36,960 02	3,850 18	1,955 37		1,391 07	98 02
Mar.	38,858 85	36,126 86	74,985 71		1,767 28	1,334 47	1,231 37	5 08				
Apr.	418 84		418 84	3,974 38	83,903 33	74,985 71	66,047 46	7,475 73	1,267 92		194 60	
May	25 00		25 00	2,371 16	1,573 23	4,393 22	4,042 03	38 03	73 52		239 64	
June	3,073 18	53,262 47	56,335 65	1,567 53	2,520 08	2,396 16	2,258 71	2 50	19 85		115 10	
July	410 37		410 37	1,442 14	56,072 41	57,903 18	50,559 01	5,361 35	102 84		1,879 98	
Aug.	191 38		191 38	1,254 89	1,539 57	1,852 51	1,602 25	8 92	2 00		239 34	
Sept.	129 06	35,432 13	35,561 19	939 00	1,272 69	1,446 17	1,311 07	17 31	25 47		92 42	
Oct.	139 59		139 59	2,049 12	43,996 79	36,500 19	31,502 27	3,410 57	25 47		1,561 88	
Nov.	85 08		85 08	1,965 28	3,680 94	2,188 71	1,057 02	11 07			1,120 62	
Dec.	383 27	31,564 86	31,948 13	606 52	1,379 97	2,050 36	217 07	3 37			1,829 92	
					36,591 81	32,554 65	465 62	17 66			32,071 37	
TOTALS	43,761 84	156,386 32	200,148 16	17,457 27	268,938 02	261,672 07	197,253 90	20,201 77	3,472 44		40,743 96	



# FINANCIAL STATEMENT—LOWELL WATER WORKS, 1902.

## OUTGO.

TABLE II	Pay Roll and Salaries	Water Works Supplies	Interest and Principal	Refund and Vacancies	Genral Expense Account	Stable	Fuel	New Wells	TOTAL	
									1902	1901
Jan.	4,494 57	3,058 65	540 00	39 59	160 44	14 48		25 41	7,933 14	4,634 69
Feb.	5,228 83	1,452 83	2,852 50	4 65	92 58	114 72	1,087 93	1,087 00	12,421 04	13,996 86
Mar.	6,259 58	1,205 23		80 95	372 85	27 17	183 69	72 00	8,201 47	16,648 67
April	5,650 04	2,549 30	120 00	136 09	111 32	92 69	2,318 33	524 90	11,502 67	8,200 99
May	7,748 33	1,156 57	18,772 00	542 00	189 31	146 16	507 44		29,061 81	29,110 70
June	6,611 40	3,497 40	2,580 00	52 81	328 29	77 26	1,870 63		15,017 79	11,044 39
July	5,793 09	4,331 95	18,320 00	107 74	143 74	295 58	3,468 54		32,460 64	28,761 62
Aug.	7,458 02	2,246 98	2,592 50	115 13	401 35	36 79	31 37		12,882 14	18,645 68
Sept.	5,969 93	1,141 19		121 51	148 44	60 34	1,878 38		9,319 79	11,867 49
Oct.	5,957 44	3,569 95	4,140 00	180 36	135 61	33 67	2,886 21		16,903 24	18,134 16
Nov.	7,270 66	1,922 22	30,572 00	66 93	217 20	14 33	2,055 35		42,118 69	41,621 07
Dec.	5,985 99	1,229 62	520 00	131 36	282 66	200 21	2,228 73		10,578 57	18,278 35
TOTALS.	74,427 88	27,361 89	81,009 00	1,579 12	2,583 79	1,213 40	18,516 60	1,709 31	208,400 99	220,944 67

# FINANCIAL STATEMENT—LOWELL WATER WORKS, 1902.

## SUBDIVISION OF "OTHER THAN WATER CHARGES" FROM TABLE I.

TABLE III.	Meters Sold.	Expense Setting Meters.	Repairs of Meters	New Services	Changed Services	Labor and Material	Building Charges	Shut off Fines	Interest	TOTAL	
										1902	1901
Feb.	735 00	82 20	195 26	107 20	5 15	134 86	23 58	4 00		1,287 25	1,739 91
Apr.	2,964 00	543 28	71 51	216 40	41 10	108 89	13 20	16 00		3,974 38	1,139 81
May	1,413 50	235 16		405 72	31 60	285 18				2,371 16	1,614 06
June	772 50	99 27	47 81	377 58	16.05	202 06	48 26	4 00		15,67 53	1,092 85
July	799 50	114 58	77 49	258 15	11 15	143 81	17 46	20 00		1,442 14	1,117 40
Aug.	599 00	87 66	44 21	156 15	66 85	261 86	35 16	4 00		1,254 89	1,090 61
Sept.	277 00	39 78	27 48	126 00	7 45	218 87	8 42	4 00	230 00	939 00	1,536 46
Oct.	620 25	114 67	45 15	214 56	44 88	991 37	18 24			2,049 12	2,624 76
Nov.	433 00	54 82	44 85	154 35	31 03	1,245 23		2 00		1,965 28	1,333 85
Dec.	145 50	20 84	105 75	18 60	3 75	295 44	2 64	14 00		606 52	1,243 09
TOTALS,	8,759 25	1,392 26	659 51	2,034 71	259 01	3,887 57	166 96	68 00	230 00	17,457 27	14,532 80

# FINANCIAL STATEMENT—LOWELL WATER WORKS, 1902.

SUBDIVISION OF "PAY ROLL AND SALARIES" FROM TABLE 2.

TABLE IV	Salaries	Meter Work	Office and Inspectors	Extension and Con- struction.	Engineer- ing	PUMPING STATIONS				Services	Recharged	New Wells	Mainten- ance	TOTALS	
						No. 1	No. 2	No. 4	No. 5					1902	1901
Jan.	283 32	366 36	601 75	68 48		517 92	302 89	445 56		15 11			1,893 91	4,211 25	3,354 59
Feb.	283 36	315 75	671 40	76 70	346 17	597 47	32 389	498 57		22 88			2,092 64	4,599 30	3,769 10
Mar.	283 32	268 75	843 25	230 94	102 50	729 09	269 50	674 45	18 00	80 86		279 53	2,479 38	5,873 76	5,485 95
Apr.	283 32	226 83	675 40	494 59	100 00	626 72	57 25	499 29	90 75	178 07	33 69	845 71	1,538 42	5,266 72	5,250 25
May	283 32	258 39	851 89	1,475 56	125 00	821 65	110 78	500 30	147 50	353 73	31 50	381 28	2,407 43	7,340 01	5,507 76
June	283 36	213 13	683 04	1,319 00	100 00	632 97	60 75	357 54	172 00	259 21			2,530 40	6,228 04	7,327 93
July	283 32	177 87	683 04	642 54	125 00	596 79	58 50	510 29		177 63			2,538 11	5,384 77	5,807 41
Aug.	283 32	268 10	853 80	923 12	105 50	841 43	201 15	651 80	2 00	267 26			3,060 54	7,069 20	6,687 85
Sept.	283 36	208 51	683 04	235 68	100 00	621 52	355 01	517 04		173 60	83 02		2,709 15	5,586 57	4,854 68
Oct.	283 32	176 38	683 04	802 44	125 00	684 78	199 88	435 04		257 60	236 48		2,073 48	5,549 12	5,810 60
Nov.	283 32	218 94	853 80	356 55	100 00	811 47	436 76	589 30		232 72	52 24		3,335 56	6,887 34	7,167 80
Dec.	283 36	293 78	778 20	129 82	50 00	742 80	251 51	652 88		29 58	24 50		2,749 56	5,652 63	5,656 10
TOTALS	3,400 00	2,993 07	8,861 65	6,755 42	1,379 17	8,224 61	2,627 87	6,331 06	430 25	2,048 25	461 43	1,506 52	29,408 58	69,648 71	66,860 04

## TABLE V.

FINANCIAL STATEMENT—LOWELL WATER  
WORKS 1902.

SUBDIVISION "WATER WORKS SUPPLIES" FROM TABLE 2.

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Pumping Station Supplies (Centralville Sta)	\$1,403 85
"        "        "    (Cook Plant Sta)	2,518 64
"        "        "    (Boulevard, Lower Sta.)	1,252 37
"        "        "    (Boulevard Upper Sta)	433 42
Cast Iron Pipe and Specials,	4,017 55
Hydrants and gates and gate boxes,	3,546 26
Service pipe and service boxes,	2,764 38
Meters,	6,041 34
Machinery and tools,	391 64
Brass Foundry,	355 71
Miscellaneous,	3,258 47
	<hr/>
	\$25,983 53

TABLE VI.  
FINANCIAL STATEMENT—LOWELL WATER  
WORKS 1902.

DETAIL OF "PRINCIPLE AND INTEREST" FROM TABLE NO. 2.

	Amount of Debt Jan. 1, 1902.	Rate	Interest Paid 1902	Principal Paid 1902	Amount of debt Jan. 1, 1903.
Water loan bonds,	\$ 1,000,00 00	4			1,000,000 00
2 Coupons No. 20, Nov. 1, 1900,			40 00		
61 Coupons No. 22, Nov. 1, 1901.			1,220 00		
995 Coupons No. 23, May 1, 1902,			19,900 00		
942 Coupons No. 24, Nov. 1, 1902,			18,840 00		
High service bonds,	75,000 00	4			75,000 00
15 Coupons No. 41, May 1, 1902,			1,500 00		
15 Coupons No. 42, Nov. 1, 1902,			1,500 00		
NOTES					
Lowell Inst. Savings,	10,000 00	4	400 00	10,000 00	
" " "	15,000 00	3½	525 00	5,000 00	10,000 00
" " "	24,600 00	4	984 00	4,100 00	20,500 00
Sundry Persons,	45,000 00	4	1,800 00	5,000 00	40,000 00
Estabrook & Co.,	67,500 00	4	2,700 00	7,500 00	60,000 00
	\$1,237,100 00		49,409 00	31,600 00	1,205,500 00

TABLE VII.  
FINANCIAL STATEMENT—LOWELL WATER  
WORKS 1902.

MAINTENANCE AND CONSTRUCTION STATEMENT.

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MAINTENANCE.

Paid for labor :

Salary of Superintendent	\$ 1,800 00
Salary of Water Board	1,600 00
Office and Inspectors	8,861 65
Pumping Stations	17,613 79
Meter Work	2,993 07
Engineering	1,325 46
General Maintenance	29,408 58

Paid for Material :

Out-put as per stock book	1,480 80
General Expense and Miscellaneous supplies	5,842 26
Stable	1,213 40
Machinery and Tools	747 35
Pumping Station Supplies	5,608 18
Fuel	18,516 60
Interest	49,409 00
	<hr/> \$146,420 14

CONSTRUCTION.

Paid for labor	\$ 8,803 67
Paid for material	
Out-put as per stock book	14,305 86
New Wells	1,709 31
Electric plant P. S. 4	682 88
Principle payments on notes	31,600 00
	<hr/> \$57,101 72

## Superintendent's Report.

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LOWELL, MASS., January 1st, 1903.

*To the Lowell Water Board:—*

GENTLEMEN:—As required by the City Ordinances, I herewith present to Your Honorable Board the Superintendent's Annual Report of the condition of the Water Works for the year 1902.

All things considered, the real estate, buildings, machinery and other property of the Water Works Department are in good condition. This is especially gratifying when due allowance is made for the magnitude and character of work involved in the last ten years in changing over entirely the source of the City's water supply from the condemned Merrimack River water to Driven Wells; and if the financial showing of the Department is not as good as in some years past, it should be borne in mind that not only is the cost of the new supply, both principal



and interest, being met by the revenues from the Works, but the complicated nature of the supply has materially increased the cost of operation and maintenance. Furthermore, a ten per cent. discount is annually made on all water bills and a still further reduction in the revenues has been caused of late years by the failure of the City Council to appropriate money for hydrants or fire protection. Today the Works are equipped so the people of the City can at all times depend upon an ample supply of excellent water for all purposes, sufficiently soft for all domestic and manufacturing uses, yet pleasant and wholesome for drinking. Later on, now that a satisfactory supply is assured, attention can be given towards improving the System with a view of lessening the running expenses. In this line was the work of lowering the suction pipes at the Cook Wells.

#### COOK WELLS.

Lowering the suction lines at this plant was probably the most important undertaking of the Department during the past year. It was begun early in the year and followed up from time to time when the level of the water in the Brook and the weather permitted, which was at rare in-

tervals owing to the extraordinary wet weather of the summer and fall. Yet while these unfavorable conditions tended greatly to increase the cost and retard the completion of the work, by running the pumps in the Station, discharging the water in the Brook below the Well plant, sufficient progress was made by the end of the year to allow the shutting down of the Station without danger to the pipes from freezing. In fact, by far the most difficult and expensive part of the work is accomplished; what remains being mostly a matter of connecting some of the lateral pipes to the main suction and attaching about twenty wells. During the progress of lowering the lines the wells were thoroughly cleaned. Cost of this work to date, \$2,426.39.

The contract with Joseph Jalbert for building brick chimney 80 ft. high, 42 in. core at this station was completed in a very satisfactory manner. Connecting with the chimney, new uptakes and a new flue were furnished and erected in position by Scannell & Wholey, after which the brick flue that connected with the old smoke stack was removed. Cost of chimney \$803.00. New uptakes and flue \$458.00.

#### HYDRAULIC WELLS.

The building which did duty as a Pumping

Station at the Hydraulic or Washington Wells was sold to Malcolm Brown and removed during the year. The place where it stood was filled in and graded. I would recommend that during the coming year a small brick house be built over the gates near the site of the old Station to mark their location and also for convenience in operating them and as a safeguard from outside interference and damage. The post hydrant put in for fire service at this Station was replaced after the building was taken down by a flush hydrant to be used for flushing the 20" main when required.

If the contingency should arise the Cook Wells Pumping Station can be started any day and between three and four million gallons of water pumped from the Cook and Hydraulic wells into the city mains. By keeping these wells cleaned and the Cook Wells Pumping Station in order, this amount of water will always be available and some day may prove of great benefit; it would at any rate remove all fears of a scarcity of water in case of a temporary interruption of the Boulevard supply.

#### LOWER BOULEVARD STATION.

The Lower Boulevard Pumping Station proved

its capacity for supplying all the water used by the city the past year. In fact, it did all the pumping last year except the week it was shut down to permit the cleaning of the Gallery and Conduit and when the two Boulevard Stations were run for a few days to test the quantity of water that could be obtained with both Stations pumping and another time when the Upper Station was operated alone in order that certain repairs could be made on the piping, which together with the boring out of the steam cylinders on No. 1 pump, was the only repairs of any account made at this Station. All three of the main pumps there now have 12" Steam Cylinders. A new platform and stairs were built to take the place of the old dilapidated structure that was there from the time the Station was built. The Forbes Engine and Bullock Dynamo used for lighting the two Stations and the houses belonging to the Department gave good service since they were repaired in March.

#### UPPER BOULEVARD STATION.

The new Pumping Station on the Boulevard was started for the first time on the 26th day of March and continued running in conjunction with the Lower Station until the 29th, both de-

livering about twelve million gallons of water per twenty-four hours into the conduit. The pumps ran very smoothly and everything about the station, inside and out, showed up well. The grading of the grounds was finished early in the year. A 4" pipe from the city main was put in the building for a fire service and for other uses. No more expense will be needed at this Station for years to come. The 20" force main from the Upper Station and the 24" main at the Lower Station were connected during the year.

#### CONDUIT, GALLERY AND TUNNEL.

From October 28th to November 1st, inclusive, pumping was stopped at the Boulevard and Centralville Stations for the purpose of cleaning, flushing and inspecting the Gallery, Conduit and Tunnel. The inspection developed no material change in their condition. Besides the usual flushing of the conduit through the 30" blow-off at Beaver Brook, all the brickwork was scrubbed clean and by the use of 700 feet of fire hose attached to a near-by hydrant, the Tunnel was thoroughly washed. During the same week the pump well at the Centralville Station and the

two force mains connecting the reservoir came in for a careful cleaning and flushing.

#### CENTRALVILLE PUMPING STATION.

The pumps and other machinery at this Station did very well the past year. Even the Morris Engine ran more and did better work than at any time since it was re-built. It, however, gave some trouble especially on the water end; the valve chamber was found cracked and had to be patched, the collar or ring and keys that held the bucket in place were found in such a condition that new ones had to be procured in their place. The only repairs made on the steam end was the changing of the position of eccentric rods and cross head between the eccentric and valve motion; this change improved the running of the engine considerably.

The Low Duty Worthington was run but very little and received no repairs. The High Duty Worthington as usual was the main reliance of this Station, doing, as it has done for the past ten years, the greater part of the pumping there. No repairs were made on it during the year, but one of the compensating cylinders is now in bad condition and will have to be replaced by a new

one before long. A new cylinder is in stock ready for use as are also two new plungers for the compensating cylinders. The plungers were made in the Department Shop but the cylinder came from the H. R. Worthington Shop.

At the request of Mr W. O. Teague, of the graduating class of the Institute of Technology, he and his fellow students were allowed to make a test of the High Duty Worthington. It was the first test since one made preliminary to its acceptance by the City ten years before.

Following is a comparison of the results obtained at both tests :

	1892.	1902.
Duration of test	10 hrs.	24 hrs.
Number of revolutions per minute	20.86	18.67
Steam pressure carried	96 lbs.	93.66 lbs.
Temperature of feed water	106 dgs.	94.518
Coal consumed per sq ft. of grate	9.79 lbs.	9.82 lbs.
Water evaporated per lb. of coal	9.31 lbs.	9.32 lbs.
Coal used per Ind. H. P.	1.69 lbs.	1.84 lbs.
Duty based on 1,000,000 heat units	116,208,007 ft. lbs.	93,004,400 ft. lbs.
Capacity in 24 hrs. plunger displacement	11,345,141 gals.	10,026,750 gals.
Percentage of slip	4.1 pr ct.	4.43 pr ct.

A marked reduction is shown in the duty since the first test, but probably no more than might



be expected considering the pump has been in almost constant use for nearly eleven years. A new  $5/8$ " twisted copper lightening conductor was placed on the chimney at this Station during the year, making now two leads instead of one as heretofore.

#### RESERVOIR.

In accordance with your vote, a "Dibble" three wire Telemeter for recording the height of water in Low Service Reservoir has been installed. At the Centralville Pumping Station is placed the receiver which indicates electrically and in unison with transmitter the height of water in the reservoir in feet and inches. Enclosed in the same case and connected with the receiver is a recording dial showing the variation of elevation for seven days. An alarm bell is also attached to the receiver, the purpose of which is to ring when an extraordinary change occurs in the level of the reservoir. In the gate house of the Low Service Reservoir is located the transmitter, firmly secured to a substantial oak stand placed directly over an eight inch W. I. stand pipe twenty-five in length, the lower end of which is perforated with a large number of one-half inch holes, permitting the level of water in stand pipe

to be susceptible to rapid changes in elevation and the same to be free from wave action. This stand pipe is set in the efflux chamber between the screens and the reservoir, thereby ensuring a correct reading of the height of the water at all times. Placed in the stand-pipe is a float connected with a large pulley while a counter weight is similarly connected to a small pulley and both are fastened by a screw to shaft of transmitter, which apparatus mechanically transmits the changes electrically to the receiver at the Pumping Station. Installed at the same time were three Couch and Seeley telephones; one at the keeper's residence, one at Gate House and one at the Centralville Pumping Station. The N. E. Tel. & Tel. Co. furnished the cross arms, etc., and ran the five lines of wire necessary in a most satisfactory manner on poles owned by the Company on Hampshire, West Ninth, Bridge and Sixth Streets to the Gate House, Beacon Street.

#### EXTENSION OF MAINS AND GATES.

The distributing mains were extended during the year 13,368.5 ft., an increase over the amount laid the previous year of 4,976.5 ft. The principal extension was that of 3,200 ft. of 10" pipe

from terminus on Princeton Street westerly to Chelmsford Town line. This pipe, in connection with the 8" main on Mindlesex Street, is of sufficient size to supply the whole village of North Chelmsford with water for all purposes in the event of the City's agreeing to do so.

Another long extension was that of 834 ft. of 6" pipe from Fowler road to the Boulevard. Off this extension is set a hydrant to be available in case of fire in either of the Department houses or the Upper Boulevard Pumping Station. As a further measure of fire protection for this Station, fire connection is made with the above extension.

For several years the operation of the Boston & Maine R. R. Stand-pipe supplied from the 6" main on Meadowcroft Street was at times the cause of more or less annoyance and damage to the water takers on that street, due primarily to the fact that the main was too small and that it formed a dead end a little beyond Lundberg St. During the year, owing to the construction of a sewer, a large section of this line had to be removed temporarily in order to do this and at the same time give the houses and mills on that street water. Upon the sanction of your Honorable Body an 8" main was laid on Lundberg St. between Potter and Meadowcroft Streets, connect-

ing with the pipe formerly laid on the Lundberg Street bridge when it was constructed. After the sewer was completed, the 6" pipe removed was replaced with 8", thus relieving the condition of affairs there by enlarging the main and giving circulation through from Moore Street to Gorham Street.

Fifty-four stop gates were added during the year, making a total now in use of 1289.

Number of gates repacked	95
Number of gates repaired	57
Number of gate boxes renewed	31
Number of gate boxes repaired	11

#### FIRE SERVICES, HYDRANTS, ETC.

Notwithstanding the refusal of the City Council to appropriate any moneys raised from general taxation to meet the increased cost of the Water Works on account of fire protection, every place where a hydrant could be set to advantage it was done so; not only was this done for public use, but every application for private fire service was granted. In the latter cases the expense of laying pipes, etc. was borne by the owners of the premises so protected, but nothing is paid

towards the maintenance of these services, nor for the water used, the expense of inspection, nor the rights thus obtained; and furthermore, these services are not metered. The matter of charging for private fire protection is being considered by the various Water Works Associations throughout the country with a view of establishing an equitable rate for the important services given by cities or Water Companies to private concerns and corporations. They are also agitating the use of some measuring device or meter in order that leakage or the use of water for other than fire purposes may be detected.

The following fire connections were made during the year:

Bateman's Mill,	Fulton St.,	4" Pipe.
Mass. Mohair Plush Co.	Western Ave.,	6" Pipe.
Lowell Gas Light Co.	Perrin St.,	4" Pipe.
Textile School,	Falmouth St.,	8" Pipe.

A new 6" check valve was set and other alterations made on Fire Service of Boston & Northern St. Railway Co., Middlesex Street, for their Power Station.

Schedules and tables giving further details of the work done on extensions, fire services, hy-

drants and gates, during the year accompany this Report.

### HYDRANTS.

#### NEW HYDRANTS.

Ludlow .....	13
Chapman.....	2
	<hr/>
	15

#### PRIVATE HYDRANTS.

Lowell Textile School.....	1	Ludlow
----------------------------	---	--------

#### HYDRANTS CHANGED.

##### SET.

Ludlow .....	13
Flush.....	1
O'Brien .....	1
Chapman.....	1
Walker.....	1
Corey.....	1
	<hr/>
	18

##### REMOVED.

Michigan.....	10
Chapman.....	2
Flush.....	5
Ludlow .....	1
	<hr/>
	18

Hydrants discontinued.....1 Ludlow, Bigelow Carpet Co.	
Hydrants reported out of order and repaired.....	299
Hydrants reported frozen and thawed.....	17
Hydrants repacked.....	86
Hydrants, location changed.....	7
Wooden hydrant boxes renewed.....	16



## HYDRANTS JANUARY 1st, 1903.

KIND.		<sup>2</sup> Noz's.	<sup>3</sup> Noz's.	<sup>4</sup> Noz's.	Total.
Boston Machine.....			172	.....	172
Chapman .....		3	106	49	158
Coffin.....			1	.....	1
Corey .....			2	.....	2
Eddy .....			32	1	33
Flush .....	439				439
Holyoke.....				1	1
Ludlow.....		3	246	1	250
Michigan.....			50	.....	50
O'Brien .....			1	.....	1
Perkins .....				1	1
Walker.....			1	.....	1
Lowrey.....	11			.....	11
TOTAL.....	450	6	611	53	1120

## PRIVATE HYDRANTS JANUARY 1, 1903.

KIND.		1 Noz.	2 Noz's.	3 Noz's.	4 Noz's.	Total.
Boston Machine.....			1	8	.....	9
Chapman.....		1	4	1	5	11
Coffin .....				1	.....	1
Flush .....	3				.....	3
Kenney .....			1		.....	1
Ludlow.....			18	14	10	42
Michigan.....				3	.....	3
Perkins.....			3	1	.....	4
Total.....	3	1	27	28	15	74

## SERVICES.

The number of new services laid last year was 195, which is 9 more than in 1901. As can be seen by the appended table, Tin Lined Iron Pipe was used in mostly every case.

## NEW SERVICES.—1902.

182	$\frac{3}{4}$ "	Iron Tin Lined Pipe.....	6,990	feet
8	1"	" " " " .....	366	"
1	2"	" " " " .....	37	"
1	$1\frac{1}{2}$ "	" Lead " " .....	25	"
1	$\frac{3}{4}$ "	Iron Pipe.....	30	"
1	2"	Iron Pipe.....	61	"
1	$\frac{3}{4}$ "	Lead Pipe.....	211	"
<hr/>			<hr/>	
195			7,720	feet
Amount previously laid.....			425,499	feet
Total now laid.....			433,219	"
Total services laid.....			11,727	
Total cut off at main.....			797	
Total re-connected.....			54	
Total now in use.....			10,984	

## SERVICES CHANGED—1902.

No.	KIND	Changed to							Total Feet
		Tin Lined 3-4-in.	Tin Lined 1-in.	Tin Lined 1 1-2 in.	Lead 3-4 in.	Iron 3-4 in.	Iron 1 1-2 in.	Iron 2 in	
30	¾-inch iron....	638	.....	.....	.....	.....	.....	.....	628
1	¾-inch iron....	.....	43	.....	.....	.....	.....	.....	43
2	¾-inch iron....	.....	.....	.....	.....	19	.....	.....	19
2	1-inch iron....	.....	23	.....	.....	.....	.....	.....	23
5	1-inch iron....	412	.....	.....	.....	.....	.....	.....	412
1	1-inch iron....	.....	.....	.....	32	.....	.....	.....	32
1	1-inch iron....	.....	.....	27	.....	.....	.....	.....	27
1	1½-inch iron....	.....	.....	.....	.....	.....	17	.....	17
2	2-inch iron....	.....	.....	.....	.....	.....	.....	10	10
2	¾-inch lead....	53	.....	.....	.....	.....	.....	.....	53
3	¾-inch lead....	.....	52	.....	.....	.....	.....	.....	52
1	⅝-inch lead....	.....	.....	.....	3	.....	.....	.....	3
Total.....		1103	118	27	35	19	17	10	1329

## SERVICE BOXES RENEWED AND REPAIRED.

Number of 3-4" service boxes renewed.....	11
Number of 1" service boxes renewed.....	418
Number of 2" service boxes renewed.....	2
Number of service boxes repaired.....	28

## METERS RUNNING January 1st, 1903.

SIZES.	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	2	3	4	6	Tot.
Columbia.....	109	5	.....	.....	.....	.....	.....	.....	114
Crown.....	2601	1569	297	16	19	3	5	2	4512
Desper.....	26	16	5	.....	.....	.....	.....	.....	47
Duplex.....	4	3	5	.....	.....	.....	.....	.....	12
Empire.....	224	40	3	.....	.....	.....	.....	.....	267
Frost.....	.....	.....	1	.....	.....	.....	.....	.....	1
Gem.....	.....	.....	.....	.....	6	.....	2	2	10
Hersey.....	346	87	8	2	.....	.....	.....	.....	443
Lambert.....	502	67	7	.....	.....	.....	.....	.....	576
Metropolitan ..	.....	1	.....	.....	.....	.....	.....	.....	1
Nash.....	120	67	42	1	.....	.....	.....	.....	230
Niagara.....	1	1	.....	.....	.....	.....	.....	.....	2
Thomson.....	5	20	3	.....	.....	.....	.....	.....	28
Trident.....	500	29	1	.....	.....	.....	.....	.....	530
Union.....	24	8	.....	1	.....	.....	.....	.....	33
Worthington ..	130	25	53	68	36	7	3	.....	322
Westinghouse.	.....	1	.....	.....	.....	.....	.....	.....	1
Total	4592	1939	425	88	61	10	10	4	7129

## METERS SET, REPAIRED, ETC.

New Meters set.....	545
Meters out for repairs.....	453
Meters condemned.....	41
Meteres condemned replaced with new.....	41
Meters frozen and burst.....	108
Meters discontinued.....	25
Meters repaired in cellars.....	285
Number of City meters set.....	220



## PRIVATE METERS RUNNING January 1st, 1903.

SIZES	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	1	2	Total
Columbia.....		9				9
Crown.....	1	25	22	2		50
Desper.....			3	1		4
Duplex.....		1				1
Empire.....		5				5
Frost.....		2	1			3
Hersey.....		8	1			9
Lambert.....		6				6
Nash.....		13	2		1	16
Thomson.....			1			1
Trident.....		6				6
Worthington.....				1	3	4
Total.....	1	75	30	4	4	114

## MISCELLANEOUS.

The two Boulevard Pumping Stations and the one at Cook Wells were painted inside and out.

A new road was built on the Cushing farm from the barn along the westerly line to the Boulevard.

A new 30-inch drinking fountain was set on Rogers Street nearly opposite Concord Street. All drinking fountains were cleaned 42 times. 21 new dippers were furnished and 223 items of repairing were charged to fountains.

Thirty-one complaints of bad water were attended to and forty-four hydrants were blown out on that account.

Nineteen sewers were flushed out.

Laid two 4-inch services for electric car street sprinklers; one on Mammoth Road at Third Avenue and one at junction of Pine and Liberty Streets.

Cap and top of chimney at Centralville Pumping Station were repaired at an expense of one hundred and fifty dollars.

## CONSUMPTION OF WATER.

Over one million, three hundred thousand gallons was saved in the daily consumption of water

last year as compared with the year previous. This is a very favorable showing and becomes still more so when by further study the consumption of last year is found to be the lowest since 1890. In order to compare the work of both years in other respects, the following summary is given:

Average daily consumption in gallons.....	1890	1902
Per capita consumption in gal- lons.....	5,373,536	5,729,325
Total receipts.....	69.24	57.29
Total expenditures.....	\$ 193,963.80	\$ 197,256.58
Total charges for water.....	194,108.32	208,400.99
Main pipe in miles.....	203,865.27	200,148.16
Total number of hydrants in use	92.17	131.90
Total number meters in use....	854	1120
Total number services in use...	1935	7129
Total amount of coal used in tons of 2000 lbs.....	8732	10984
Total cost of coal.....	2166	4766
Total expense of pumping.....	9,810.64	23,305.79
Cost of pumping per million gal- lons.....	17,540.70	40,142.21
Paid for interest.....	8.99	18.84
Paid for Principal (loans).....	115,012.50	49,409.00
Paid for maintenance.....	none	31,600 00
Net indebtedness.....	58,435.92	97,011.14
Price of water per 100 cu ft.....	1,071,126.20	862,298.57
	15c flat	14c 10% dis.

Received for Fire Service.....	13,000.00	none
Received for drinking fountains	500.00	none
Received for Commons and Parks.....	240.00	none
Population.....	77,000	100,000
Cases of typhoid fever.....	454	83
Deaths from typhoid fever.....	123	16

The foregoing table shows that while the population since 1890 increased 30% and the number of services or water takers 25%, the consumption is substantially as it was in 1890. The difference in the total receipts is only \$3,292.78, but if the same rates were charged that prevailed in 1890, the receipts the past year would amount to at least \$35,000.00 more. The great increase in the maintenance expense is due largely to the fact that we have to pump the well water twice and also because it is necessary to pump constantly through the twenty-four hours with three shifts, while in 1890 all the water required was pumped in eighteen hours with two crews. However, the great lesson of the foregoing figures is that the people of Lowell are getting much better quality of water for less money than they did twelve years ago, or in other words, a population 25% larger is now supplied without a corresponding increase in the amount

raised by the Department. Whether the Department can continue to furnish water without increasing the rates is a question your Honorable Board will have to meet at an early date.

Respectfully submitted,

ROBERT J. THOMAS,

*Superintendent.*

## LOW SERVICE WATER PIPES LAID IN 1902.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.					Total.
		4-in	6-in	8-in	10-in	12-in	
Aiken ave.....	Southerly to Essex... ..		100				100.0
Aiken.....	Extended westerly... ..					29	29.0
Bertram.....	Westerly from Saunders ave.....		143				143.0
Billings .....	Bridge and Barker ave... ..		362				362.0
B & N St Ry...	Service off Foster.....	62					62.0
Boston road....	Southerly from Marshall road.....			351			351.0
Boston road....	Southerly from Cunningham.....			293			293.0
Boulevard, Paw.	Easterly from Wellington.....		158				158.0
Campaw.....	Easterly from Lakeview ave.....		153				153.0
Cashin .....	Southerly from Princeton.....		49				49.0
Chestnut .....	Fayette and High.....		260				260.0
Corey.....	Southerly from Princeton.....		49				49.0
Crescent.....	Northerly to Parker.....		366				366.0
Crawford.....	Easterly towards Sixth ave.....		125				125.0
Dingwell.....	Southerly from Princeton.....		484½				484.5
Dracut.....	Northerly from Third ave.....		171				171.0
Essex.....	Westerly and Northerly from Aiken av		342				342.0
Falmouth.....	Southerly from Riverside.....			495			495.0
Foster.....	Northerly from Middlesex.....			216			216.0
Fulton .....	Fire service to Bateman's mill.....	25					25.0
Hawthorne....	Extended southerly.....		96				96.0
Kimball ave....	Smith and Queen.. ..	352					352.0
Ludlam .....	Easterly to Bridge street.....		205				205.0
Lundberg .....	Potter and Meadowcroft.....			500			500.0
Mass. M. P Co.	Fire service off Western ave.....	7	196				203.0
Meadowcroft ...	Northerly from Lundberg.....			628			628.0
Meadowcroft ...	Southerly from Lundberg.....		57				57.0
	Carried forward.....	446	3316½	2483		29	6274.5

## LOW SERVICE—WATER PIPES LAID IN 1902.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.					Total.
		4-in.	6-in.	8-in.	10-in.	12-in.	
	Brought forward.....	446	3316½	2483		29	6274.5
New York.....	Westerly from Lakeview ave.....		350				350.0
Old Meadow rd.	Northerly from Varuum ave.....		313				313.0
Old Meadow rd.	1 1-2 in pipe extd to Town line 644 ft.						
Ottawa.....	Easterly from Lakeview ave.....		181				181.0
Parker ... ..	Southerly from Walden.....		147				147.0
Pawtucket.....	Easterly from Walker.....			72			72.0
Perrin.....	Fire service to Gas Co's office build'g..	15					15.0
Plain.....	Easterly from Penn ave... ..		156				156.0
Porter.....	Easterly from Huntington.....		142				142.0
Potter.....	Southerly to Lundberg.....	50					50.0
Princeto n.....	Pratt St to Chelmsford line.....				3200		3200.0
Prospect.....	Extended southerly.....	30					30.0
Riverside.....	Pipe ext'n bet. houses Nos. 239-249....		99				99.0
Starbird.....	Extended northerly.....		36				36.0
So Wilder.....	Northerly from Midland.....		320				320.0
Textile School..	Fire service off Falmouth.....	12	226	271			509.0
Thayer.....	Easterly from Bellevue.....		156				156.0
Third ave.....	Endicot and Dracut.....		275				275.0
Walden.....	Westerly to Parker .....		63				63.0
Washer.....	Easterly from Meadowcroft .....		144				144.0
Wellington.....	Fowler road and Boulevard .....		834				834.0
Wellington.....	Service to Pnmping Station.....	55					55.0
Wood.....	Southerly from Princeton.....		325				325.0
	Hydrants.....		202				202.0
	Street car sprinklers.....	15	6				21.0
	Laid in 1902.....	623	7291½	2826	3200	29	13969.5
	Less taken out or re-laid on Meadow- cooft and Washer sts.....	144	685				829.0
	Total.....						13140.5



## HIGH SERVICE—WATER PIPES LAID IN 1902.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.					Total,
		4-in.	6-in.	8-in.	10-in.	12-in.	
Belmont avenue.	Extended southerly.....		12				12.0
Eleventh.....	Easterly from Beacon.....		216				216.0
	Laid in 1902... ..		228				228.0
	High Service laid previous to 1902. ....						37425.5
	Total High Service to Jan. 1, 1903.....						37653.5

Brought forward.....	13,140.5 feet	
Low Servicee laid previous to 1902.....	645,676.0	"
Total Low Service to January 1, 1903.....	<u>658,816.5</u>	"
Total High Service to January 1, 1903.....	<u>37,653.5</u>	"
Total High and Low Service to January 1, 1903.....	696,470.0	"
Total in miles, 131.90.		

# LOW SERVICE—LIST OF STOP GATES SET DURING 1902.

STREETS.	LOCATION.	4-in.	6-in.	8-in.	10 in.
Bertram .....	9½ feet south of north line Bertrand street, on west line Saunders avenue.....		I		
B. & N. St. Ry.....	Check valve Middlesex street, near car barn (private).....		I		
Boston road.....	12 feet east of west line Boston road at junction Boston road with Marshall road.....			I	
Campaw.....	12 feet south of north line of Campaw street, 13 feet west of east line Lakeview avenue.....		I		
Cashin ..	12 feet east of west line Cashin street, on south line Princeton street.....		I		
Chestnut .....	13 feet south of north line Chestnut street, 20½ feet east of west line Fayette street.....		I		
Chestnut.....	12 feet south of north line Chestnut street, 39 feet east of west line High street.....		I		
Corey .....	12 feet east of west line Corey street, on south line Princeton street.....		I		
Crescent ....	13½ feet south of north line Parker street, 12 feet west of hydrant in front of Spaulding house.....		I		
Dingwell.....	12 feet east of west line Dingwell street, on south line Princeton street.....		I		
Essex .....	15 feet south of curve junction Aiken avenue and Essex street, on west line Aiken Avenue, ..		I		
Falmouth....	14 feet west of east line Falmouth street, on south line Riverside street.....			I	
Falmouth .....	15 feet west of east line Falmouth street, 3 feet north of south line passageway to Textile School.....			I	
Foster.....	12 feet west of east line Foster street, on north line Middlesex street.....			I	
Foster.....	On service to B & N St Ry power house, 25 feet east of west line Foster street.....	I			
Fulton].....	63.8 feet east of east line Mt. Vernon street, 15 feet north of south line Fulton street.....	I			
Jackson.....	On hydrant, 20½ feet north of south line of Jackson street, 134 feet west Robeson street.....		I		
Jackson.....	On Hydrant 16.2 feet north of south line Jackson street, 119.4 feet east of Robeson street .....		I		
Kimball ave.....	8½ feet north of south line Kimball avenue, 23 feet east of west line Smith street .....		I		
Kimhall ave.....	9 feet north of south line Kimball avenue, on east line Queen street.....	I			

# LOW SERVICE—LIST OF STOP GATES SET DURING 1902.—Continued.

STREET.	LOCATION.	4-in	6-in	8-in	10-in
Liberty.....	On street car sprinkler stand pipe, 16 feet south of north line Liberty street, 45 feet west of east line of Penniman park.	1			
Ludlam .....	12.3 feet north of south line Ludlam street, on west line Bridge street .....		1		
Lundberg .....	12 feet north of south line Lundberg street, on east line Florence street .....			1	
Lundberg .....	12 feet north of south line Lundberg street, 3.3 feet west of west line Meadowcroft street .....			1	
Mammoth road.....	On street car sprinkler stand pipe, 10½ feet west of east line Mammoth road, 2.7 feet south of south line Third avenue .....	1			
Mass. Mohair Pl Co..	In mill yard near water tower—private.....	1	2		
Mass. Mohair Pl Co..	In mill yard near water tower. Check-valve.—private.....		2		
Meadowcroft.....	10.6 feet west of east line Meadowcroft street, 7 feet south of north line lot on which is located house No. 108 .....		1		
Merrimack Mfg. Co..	On hydrant connection, 5.4 feet from hydrant, 78 feet west of Dutton street .....		1		
Moody.....	On hydrant, 40.8 feet west of east line Moody street, on south line Texfile school.....		1		
Moody .....	On hydrant, 16 feet east of west line Moody street, 7½ feet north of north line Textile school .....		1		
Mt. Hope.....	13 feet east of west line Mt. Hope street, on north line Fourth avenue .....		1		
New York.....	13.7 feet south of north line New York street, on west line Lakeview avenue .....		1		
Old Meadow road.....	12 feet west of east line Old Meadow road, on north line Var-num avenue .....		1		
Ottawa.. ..	12 feet north of south line Ottawa street, 13 feet west of east line Lakeview avenue .....		1		
Perrin.....	On fire service to Gas Co's office building, 103 feet west of west line School street, 14.7 north of south line Perrin-st.	1			
Plain.....	18 feet north of south line Plain street, opposite point of curve junction of Plain street and Boston road .....		1		
Porter.....	12 feet south of north line Porter street, on east line Hunting-ton street .....		1		
Potter.....	12 feet east of west line Potter street, 1 foot south of north line Lundberg street .....	1			
Princeton.....	13 feet south of north line Princeton street, on west line Wood street .....				1

# LOW SERVICE—LIST OF STOP GATES SET DURING 1902.—Continued.

STREETS.	LOCATION.	4-in	6-in	8-in	10-in
Riverside.....	On 6" pipe extension between houses Nos. 239-249, 27 feet north of south line Riverside street, &c.....		1		
So. Wilder.....	13 feet west of east line So. Wilder street, on north line Midland street.....		1		
Thayer.....	12 feet south of north line Thayer street, on east line Bellevue street.....		1		
Textile School.....	On 4" pipe to boiler room, in passageway, 45 feet west of east line boiler house.....	1			
Third avenue.....	13 ft. south of north line Third avenue, on west line Endicott street.....		1		
Walden .....	12 feet north of south line Walden street, on east line Parker street.....		1		
Washer.....	12 feet north of south line of Washer street, on east line Meadowcroft street.....		1		
Wellington .....	1 foot north of south line Fowler road, 11 feet east of west line Wellington street.....		1		
Wellington .....	On south line Pawtucket Boulevard, 11 feet east of west line Wellington street.....		1		
Wellington .....	On 4" service to Pumping Station.....	1			
Wood.....	12 feet west of east line Wood street, on south line Princeton street.....		1		

# HIGH SERVICE—LIST OF STOP GATES SET DURING 1902.

STREETS.	LOCATION.	6-in	8-in	10-in	12-in
Eleventh.....	12 feet north of south line of Eleventh street, on east line Beacon street.....	1			
Tenth.....	16 feet south of north line Tenth street, on east line Beacon street.....				1

# LOW SERVICE—LIST OF HYDRANTS SET DURING 1902.

STREETS.	LOCATION.
Billings.....	Northerly side, near Barker avenue.
Carpet Lane.....	Hydrant taken out, near new mill.
Dingwell.....	Westerly side, 14 feet south Princeton street.
Falmouth.....	Easterly side, 364 feet southerly from Riverside street.
Ford .....	Oesterly side, 221 feet north of Aiken street.
Jackson.....	Southerly side, in front new Appleton mill, 119 feet east of Robeson street
Jackson.....	Northerly side, between R. R. tracks, near overhead passageway.
Lakeview.....	Westerly side, 214 feet north conduit avenue.
Moody.....	Westerly side, 7½ feet north Textile School.
Moody. ....	Easterly side, on south line Textile School.
New York.....	Northerly line, 313 feet west Lakeview avenue.
Pawtucket.....	Southerly side. 38½ feet east of Merrimack street. (chnrged)
Princeton.....	Northerly side, near Chelmsford Town Line.
Pumping Station.....	Near junction Boulevard and (formerly) Wellington street.
Queen.....	Westerly side, opposite Kimball avenue.
Textile School.....	In centre of court-yard.
Wood .....	Westerly side, 287 feet south of Princeton street.



## HIGH SERVICE—LIST OF HYDRANTS SET DURING 1902.

STREET.	LOCATION.
Belmont avenue .....	Westerly side, opposite White's residence.



# Report of the City Engineer.

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OFFICE OF CITY ENGINEER.

LOWELL, MASS., Jan. 1, 1903.

*To the Lowell Water Board:—*

GENTLEMEN:—I have the honor to submit the Thirtieth Annual Report for the year ending December 31st, 1902.

## PUMPAGE.

Total net pumpage for 1902.....	2,090,924,110	Gals.
Total net pumpage for 1901.....	2,576,064,071	“
A decrease in 1902 of.....	485,139,961	“

## CONSUMPTION.

Consumption for 1902.....	2,091,203,586	Gals.
Consumption for 1901.....	2,576,765,224	“
A decrease in 1902 of.....	485,561,638	“

The greatest quantity pumped in one day was 9,753,000 gallons, on March 29th.

The greatest quantity pumped in one week was 47,199,375 gallons, July 14th to July 20th.

The pumpage for High Service was 52,673,894 gallons, which is 6,413,498 gallons less than that of last year.

The cost of Low Service pumpage has been Eighteen Dollars and Eighty-four Cents (\$18.84) per million gallons, an increase of Two Dollars and Fifty-eight Cents (\$2.58) per million gallons above that of last year.

The cost of High Service pumpage has been Thirty-two Dollars and Ninety-nine Cents (\$32.99) per million gallons, an increase of Five Dollars and Seventy-seven Cents (\$5.77) per million gallons above that of last year.

TABLE SHOWING QUANTITY PUMPED EACH MONTH AT THE SEVERAL STATIONS, DURING THE YEAR 1902.

MONTHS.	PUMPING STATIONS—DRIVEN WELLS.				STATION No. 1, WEST SIXTH STREET.				Grand Totals.	Net Totals.	
	No. 2. Cook Wells	No. 4. Lo'r Boul'd.	Upper Boulevard.	Net Totals.	Worth'gton High Duty.	Worth'gton Duplex.	Morris.	Totals Low Service.			High Service.
January.....		205,637,365		205,637,365	152,383,125	37,532,940		189,916,065	2,919,252	398,472,682	189,916,065
February.....		194,489,885		194,489,885	140,656,875	33,638,100		174,294,975	2,083,746	370,868,606	174,294,975
March.....		166,301,011	19,337,500	185,641,511	155,287,500	19,633,850		174,921,350	1,988,098	362,550,959	174,921,350
April .....		147,173,410	23,501,711	170,675,121	151,209,375	10,906,110		162,115,485	2,224,040	335,014,646	162,115,485
May.....		130,952,493	53,324,832	184,277,325	65,702,250		113,458,240	179,160,490	2,1568,902	366,006,717	179,160,490
June.....		113,864,412	66,243,910	180,108,322	188,197,125			188,197,125	4,584,034	372,889,481	188,197,125
July.....		182,912,976		182,912,976	187,063,125			187,063,125	8,624,000	378,600,101	187,063,125
August.....		178,632,314		178,632,314	86,363,250		96,018,880	182,382,130	8,756,580	369,771,024	182,382,130
September.....		164,557,122		164,557,122	156,284,250		11,455,360	167,739,610	8,076,740	349,373,472	167,739,610
October .....	19,477,504	•139,438,494		152,407,130	133,336,875			133,336,875	6,284,432	298,537,305	152,814,379
November.....	2,631,616	158,579,186		161,210,802	29,911,500	5,075,010	110,923,840	145,910,350	2,368,268	309,489,420	148,541,966
December.....		229,387,273		229,387,273	152,837,250		30,940,160	183,777,410	2,195,802	415,360,485	183,777,410
Total.....	22,109,120	2,011,928,941	162,407,953	2,189,937,146	1,599,332,500	106,786,010	362,796,480	2,068,814,990	52,673,894	4,317,934,898	2,009,924,110
							In 1901 =	2,178,818,435	59,087,392	4,861,856,916	2,576,064,071
							Decrease in 1902	110,003,445		546,922,018	485,139,961

• Includes 6,508,868 gallons used to flush, conduit, etc.

\* Includes 6,508,868 gallons used to flush, conduit, etc.

TABLE SHOWING SOURCE OF SUPPLY, QUANTITY PUMPED AND COST OF PUMP-  
ING AT THE SEVERAL STATIONS DURING THE YEAR 1902.

PUMPING STATIONS.	SOURCE OF SUPPLY—WELL WATER.				Totals in U. S. Gallons.	COST.	
	345 driven wells at Pawtucket Boulevard.	90 driven wells at City Farm.	120 driven wells in Chelmsford Mass.	Distributing mains of Low Service system.		Totals.	Per million gallons.
West Sixth Street (No. 1).....							
Low Service.....	2,068,814,990				2,068,814,990	\$18,335.41	\$ 8.86 +
High Service.....					53,673,894	745.14	14.15—
Cook Wells (No. 2).....		22,109,120		52,673,894	22,109,120	431.29	19.51—
Hydraulic Well (No. 3) discontinued							
Lower Boulevard (No. 4).....	2,011,928,941				2,011,928,941	19,252.87	9.57—
Upper Boulevard.....	162,407,953				162,407,953	1,377.50	8.48 +
Total Pumpage.....					4,317,934,898	40,142.21	9.30—
Deduct } at Lower Boulevard.....	2,005,420,073***						
quantity } at Upper Boulevard.....	*6,508,868						
pumped } by High Service.....	162,407,953***			52,673,894	2,227,010,788		
Net Pumpage.....							
Cost exclusive of High Service.....					2,090,924,110	\$40,142.21	19.20—
Total cost of High Service Pump- age.....							18.84 +
							\$32.99

\*\*\*Re-pumped at West Sixth Street. \*Used to flush conduit, etc.

The following tables, showing the performance of the engines, depth and quality of water in the Beacon Street Reservoir, average temperature of air and water at Beacon Street Reservoir, and the average monthly and daily consumption of water, have been calculated from the records of the engineers and gate keeper.



TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH DUTY ENGINE, FOR  
EACH MONTH DURING THE YEAR 1902.

MONTH.	No. of days pumping.	Average No. of hours pumping per day.	No. of hours pumping per month.	No. of strokes made per month.	Average No. of strokes made per minute.	Average head including friction in feet.	Quantity pumped in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. gals. of water pumped into reservoir per lb. total coal consumed.	Duty in lbs. 1 ft. high coal used in pumping only; no deduction for ashes or clinkers.	Duty on total coal consumed, no deduction for ashes or clinkers.
January.....	26	22-27	583-45	406,355	11.60	163.83	152,383,125	5,860,889	583	80,135,927	79,575,955
February.....	24	22-13	533-15	375,085	11.72	164.02	140,656,875	5,860,793	576	78,699,145	78,699,145
March.....	29	22-19	647-00	414,100	10.67	164.07	155,287,500	5,344,041	594	82,347,509	84,215,204
April.....	30	21-53	656-30	493,225	10.24	164.87	151,209,375	5,040,312	601	82,710,075	82,118,038
May.....	13	19-28	253-00	175,206	11.54	164.02	65,702,250	5,054,019	594	85,525,510	81,866,204
June.....	30	23-55	717-30	501,859	11.66	164.22	188,197,125	6,273,237	667	93,214,128	91,305,851
July.....	31	24-00	744-00	498,835	11.17	164.19	187,063,125	6,034,294	603	82,523,434	82,523,434
August.....	16	21-10	338-45	230,302	11.33	164.29	86,363,250	5,397,793	615	85,618,039	84,182,596
September.....	29	23-08	671-00	416,758	10.35	164.20	156,284,250	5,389,112	623	85,271,180	85,271,180
October.....	28	22-40	634-30	355,565	9.34	164.29	133,336,875	4,762,031	492	71,018,581	67,308,391
November.....	6	19-05	114-30	79,764	11.61	164.36	29,911,500	4,885,250	610	83,618,154	83,618,154
December.....	26	22-39	589-00	407,566	11.53	164.41	152,837,250	5,878,356	536	73,914,915	73,378,780
Totals and Averages..	288	22-31	6482-15	4,264,620	10.96	164.13	1,599,232,500	5,552,891	588	81,585,226	80,467,759

TABLE SHOWING WORK DONE WITH WORTHINGTON DUPLEX ENGINE, FOR  
EACH MONTH DURING THE YEAR 1902.

MONTHS.	No. of days pumping.	Average No. of hours pumping per day.	No. of hours pumping per month.	No. of strokes made per month.	Average No. of strokes made per minute.	Average head, including friction in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. of water pumped into reservoir per lb. total coal consumed.	Duty in lbs. 1 ft. high coal used in pumping only; no deduction for ashes or clinkers.	Duty on total coal consumed, no deduction for ashes or clinkers.
January.....	10	15-52	158-45	121,074	12.71	160.95	37,532,940	3,753,294	313	24,043,233	42,043,233
February.....	8	17-17	138-15	108,510	13.08	160.39	33,638,100	4,204,762	340	45,423,854	45,423,854
March.....	7	13-43	96-00	63,335	11.00	160.78	19,633,850	2,804,836	372	49,832,724	49,832,724
April.....	4	12-07	48-30	35,181	12.09	163.95	10,906,110	2,726,527	330	44,876,031	44,876,031
May.....											
June.....											
July.....											
August.....											
September.....											
October.....											
November.....	2	10-45	21-30	16,371	12.69	163.13	5,075,010	2,537,595	248	33,717,457	33,717,457
December.....											
Totals and Averages	31	14-56	463-00	344,471	12.40	161.18	106,786,010	3,444,710	329	441,344,510	441,344,510

TABLE SHOWING WORK DONE WITH MORRIS ENGINE (BEAM AND FLY WHEEL)  
FOR EACH MONTH DURING THE YEAR 1902.

MONTHS.	No. of days pumping.	Average No. of hours pumping per day	No. of hours pumping per month.	No. of strokes made per month	Average No. of strokes made per minute.	Average head, including friction, in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. gallons pumped into reservoir per lb. total coal consumed.	Duty in lbs. 1 ft. high with 100 lbs. coal used in pumping only; no deduction for ashes or clinkers.	Duty on total coal consumed no deduction for ashes or clinkers.
January....											
February...											
March.....											
April.....	23	21-14	488-30	354,557	12.10	161.78	113,458,240	4,932,967	596	80,409,185	80,409,185
May.....											
June.....											
July.....											
August.....	19	21-17	404-15	300,059	12.37	160.64	96,018,880	5,053,625	516	69,115,683	69,115,683
September..	4	12-00	48-00	35,798	12.43	161.14	11,455,360	2,863,840	538	72,214,567	72,214,567
October....											
November..	26	21-54	569-30	346,637	10.14	162.14	110,923,840	4,266,302	462	64,149,265	62,439,029
December..	7	22-04	154-30	96,688	10.43	162.03	30,940,160	4,420,023	454	61,300,056	61,300,056
Totals and } Averages }	79	21-04	1664-45	1,133,739	11.35	161.61	362,796,480	4,592,361	514	69,870,111	69,236,500

TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH SERVICE ENGINE  
FOR EACH MONTH DURING THE YEAR 1902.

MONTHS.	No. of days pumping.	Average No. of hours pumping per day	No. of hours pumping per month.	No. of strokes made per month	Average No. of strokes made per minute.	Average head, including friction, in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. gallons of water pumped into reservoir per lb. total coal consumed.	Coal in lbs. used when pumping.
January .....	12	14-40	176-00	208,518	19.75	70.44	2,919,252	243,271	300	9,718
February .....	8	16-30	132-00	148,839	18.79	70.44	2,083,746	260,468	300	6,943
March .....	8	15-07	121-00	142,007	19.56	70.44	1,988,098	248,512	300	6,626
April .....	8	15-04	120-30	158,860	21.97	70.44	2,224,040	285,005	300	7,412
May .....	8	16-07	129-00	183,493	23.71	70.44	2,568,902	321,113	300	8,561
June .....	18	20-32	369-30	327,431	14.77	84.59	4,884,034	254,669	300	15,256
July .....	31	24-00	744-00	616,000	13.80	93.59	8,624,000	278,194	300	28,747
August .....	31	24-00	744-00	625,470	41.01	93.59	8,756,580	282,470	300	29,185
September .....	30	24-00	720-00	576,910	13.35	93.59	8,076,740	269,225	300	26,875
October .....	24	22-37	543-00	448,888	13.87	82.99	6,284,432	261,851	300	20,942
November .....	8	17-00	136-00	169,162	20.73	70.44	2,368,268	296,033	300	7,892
December .....	9	14-47	133-00	156,843	19.65	70.44	2,195,802	243,978	300	7,318
Totals and Averages..	195	20-52	4068-00	3,762,421	15.41	84.22	52,673,894	270,123	300	175,475

TABLE SHOWING AMOUNT OF COAL USED FOR  
 WORTHINGTON HIGH DUTY ENGINE AT  
 PUMPING STATION DURING THE YEAR 1902.

MONTHS.	COAL CONSUMED.			
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires in lbs.	Total per month in lbs.
January.....	1,830	259,631	....	261,461
February.....	....	244,310	....	244,310
March.....	3,595	257,851	....	261,446
April.....	1,800	249,674	....	251,474
May.....	4,040	105,011	1,600	110,651
June.....	5,175	276,319	600	282,094
July.....	....	310,178	....	310,178
August.....	2,355	138,111	....	140,466
September.....	....	250,807	....	250,807
October.....	7,770	257,065	6,400	271,235
November.....	....	48,999	....	48,999
December.....	2,070	283,321	....	285,391
Totals.....	28,635	2,681,277	8,600	2,718,512

TABLE SHOWING AMOUNT OF COAL USED FOR  
 WORTHINGTON DUPLEX ENGINE AT PUMP-  
 ING STATION DURING THE YEAR 1902.

MONTHS.	COAL CONSUMED.			
	For starting fires in lbs.	When pumping in lbs.	For banking fires, in lbs.	Total per month in lbs.
January .....	....	119,746	....	119,746
February .....	....	98,987	....	98,987
March .....	....	52,793	....	52,793
April .....	....	33,024	....	33,024
May .....	....	....	....	....
June .....	....	....	....	....
July .....	....	....	....	....
August .....	....	....	....	....
September .....	....	....	....	....
October .....	....	....	....	....
November .....	....	20,463	....	20,463
December .....	....	....	....	....
Totals .....	....	325,013	....	325,013

TABLE SHOWING AMOUNT OF COAL USED FOR  
MORRIS ENGINE AT PUMPING STATION  
DURING THE YEAR 1902.

MONTHS.	COAL CONSUMED.			
	For starting fires in lbs.	When pumping in. lbs.	For banking fires, in lbs.	Total per month in lbs.
January .....	....	....	....	....
February.....	....	....	....	....
March.....	....	....	....	....
April.....	....	....	....	....
May.....	....	190,243	....	190,243
June .....	....	....	....	....
July.....	....	....	....	....
August.....	....	185,989	....	185,989
September.....	....	21,303	....	21,303
October.....	....	....	....	....
November.....	3,800	233,656	2,600	240,056
December.....	....	68,157	....	68,157
Totals.....	3,800	699,348	2,600	705,748

TABLE SHOWING AMOUNT OF COAL USED FOR  
DEANE ENGINES AT PUMPING STATION NO 2,  
COOK WELLS, DURING THE YEAR 1902.

MONTHS.	COAL CONSUMED.			
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires, in lbs.	Total per month in lbs.
January.....	....	....	....	....
February.....	....	....	....	....
March.....	....	....	....	....
April.....	....	....	....	....
May.....	....	....	....	....
June.....	....	....	....	....
July.....	....	....	....	....
August.....	....	....	....	....
September.....	....	....	....	....
October.....	....	97,202	....	97,202
November.....	....	12,497	....	12,497
December.....	....	....	....	....
Totals.....	....	109,699	....	109,699



TABLE SHOWING AMOUNT OF COAL USED FOR  
KNOWLES ENGINES AT PUMPING STATION  
NO. 4, LOWER BOULEVARD, DURING  
THE YEAR 1902.

MONTHS.	COAL CONSUMED.			
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires, in lbs.	Total per month, in lbs.
January.....	....	464,044	....	464,044
February.....	....	452,349	....	452,349
March .....	....	354,512	....	354,512
April.....	....	294,558	....	294,558
May.....	....	270,276	....	270,276
June .....	....	255,727	....	255,727
July.....	....	435,210	....	435,210
August.....	....	439,973	....	439,973
September .....	....	408,744	....	408,744
October.....	....	356,691	5,490	362,181
November.....	....	430,020	....	430,020
December.....	....	647,886	....	647,886
Totals.....	....	4,809,990	5,490	4,815,480

TABLE SHOWING AMOUNT OF COAL USED FOR  
WORTHINGTON ENGINES AT PUMPING STA-  
TION UPPER BOULEVARD DURING THE  
YEAR 1902.

MONTHS.	COAL CONSUMED.			
	For starting fires, in lbs.	When pumping, in lbs.	For banking fires, in lbs.	Total per month, in lbs.
January.....	....	....	....	....
February.....	....	....	....	....
March.....	....	59,430	....	59,430
April.....	....	51,885	....	51,885
May.....	....	95,201	....	95,201
June.....	....	131,807	....	131,807
July.....	....	....	....	....
August.....	....	....	....	....
September.....	....	....	....	....
October.....	....	....	....	....
November.....	....	....	....	....
December.....	....	....	....	....
Totals.....	....	338,323	....	338,323

WEST SIXTH STREET PUMPING STATION, No. 1,  
 WORTHINGTON HIGH DUTY ENGINE,  
 RUNNING EXPENSES FOR THE YEAR 1902.

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Pay of Engineers and Firemen.....	\$6,168 46
529 1185-2000 tons of coal (Cumberland, 1901), at \$3.982....	2,108 84
173 485-2000 tons of coal (Cumberland, 1902), at 3.982....	689 85
148 329-2000 tons of coal (Cumberland, 1902), at 6.25 .....	926 03
57 799-2000 tons of coal (Cumberland, 1902), at 4.241.....	243 43
65 675-2000 tons of coal (Cumberland, 1902), at 8.929.....	583 40
385 1039-2000 tons of coal (Cumberland, 1902), at 5.616.....	2,165 08
Gas for lighting works.....	2 50
308.25 gallons of cylindar oil, at 0.432.....	133 08
124.12 gallons of engine oil, at 0.335.....	41 52
165.06 pounds of packing, at 1.404.....	231 79
144.75 pounds of cotton waste, at 0.0775.....	11 22
29 pounds of tallow, at 0.057.....	1 65
Repairs on engine.....	136 16
Repairs on boilers.....	197 80
Tools and stock.....	45 94
Sundries.....	95 88
<hr/>	
Total.....	\$13,782 63

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Cost of pumping water into reservoir per million gallons, \$8.62—

Cost of pumping water one foot high per million gallons, .05 25-100

WEST SIXTH STREET PUMPING STATION No. 1,  
 WORTHINGTON DUPLEX ENGINE,  
 RUNNING EXPENSES FOR THE YEAR 1902.

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Pay of Engineers and Firemen.....	\$ 411 23
152 550-2000 tons of coal (Cumberland, 1901), at \$3.982.....	606 36
10 463-2000 tons of coal (Cumberland, 1902), at 5.616.....	57 46
20.55 gallons of cylinder oil, at 0.432.....	8 87
8.27 gallons of engine oil, at 0.335.....	2 77
10 pounds of packing, at 1.419.....	14 19
9.65 pounds cotton waste, at 0.0775.....	75
Repairs on boilers.....	13 19
Tools and stock.....	3 06
Sundries.....	4 95
<b>Total .....</b>	<b>\$1,122.83</b>

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Cost of pumping water into reservoir per million gallons, \$10.51+

Cost of pumping water one foot high per million gallons, 0.6 52-100

WEST SIXTH STREET PUMPING STATION, NO. 1,  
MORRIS ENGINE,  
RUNNING EXPENSES FOR THE YEAR 1902.

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Pay of Engineers and Firemen.....	\$1,398 18
36 650-2000 tons of coal (Cumberland, 1901), at \$3.982.....	144 65
58 1593-2000 tons of coal (Cumberland, 1902), at 3.982.....	234 13
257 1505-2000 tons of coal (Cumberland, 1902), at 5.616.....	1,447 54
Gas for lighting works.....	20
69.87 gallons of cylinder oil, at 0.432.....	30 16
28.14 gallons of engine oil, at 0.335 .....	9 41
115.5 pounds of packing, at 0.498.....	57 50
32.81 pounds of cotton waste, at 0.0775.....	2 54
33 pounds of tallow, at 0.05.....	1 65
Repairs on engine.....	31 89
Repairs on boilers .....	44 84
Tools and stock.....	10 41
Sundries.....	16 85
<b>Total.....</b>	<b>\$3,429 95.</b>

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Cost of pumping water into reservoir per million gallons, \$9.45+

Cost of pumping water one foot high per million gallons, .05 85-100

WEST SIXTH STREET PUMPING STATION No. 1,  
HIGH SERVICE ENGINE,  
RUNNING EXPENSES FOR THE YEAR 1902.

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Pay of Engineers and Firemen.....	\$246 74
15 1890-2000 tons of coal (Cumberland, 1901), at \$3.982.....	63 49
11 626-2000 tons of coal (Cumberland, 1902), at 3.982.....	45 05
13 901-2000 tons of coal (Cumberland, 1902), at 6.25 .....	84 07
6 167-2000 tons of coal (Cumberland, 1902), at 4.241.....	25 80
5 761-2000 tons of coal (Cumberland, 1902), at 8.929.....	48 04
35 1130-2000 tons of coal (Cumberland, 1902), at 5.616.....	199 73
12.33 gallons of cylinder oil, at 0.432.....	5 33
4.97 gallons of engine oil, at 0.335.....	1 66
8.5 pounds of packing, at 1.419.....	12 06
5.79 pounds cotton waste, at 0.0775.....	45
Repairs on boilers.....	7 91
Tools and stock.....	1 84
Sundries .....	2.97
Total.....	<hr/> \$745 14

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Cost of pumping water into reservoir per million gallons, \$14.15—

Cost of pumping water one foot high per million gallons, .16 80-100

COOK WELLS PUMPING STATION No. 2.  
DEANE ENGINES.  
RUNNING EXPENSES FOR THE YEAR 1902.

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Pay of Engineers and Firemen .....	\$126 00
22 1434-2000 tons of coal (Cumberland, 1902), at \$3.982 ...	90 46
32 265-2000 tons of coal (Cumberland, 1902), at 5.616....	180 46
50 gallons of kerosene oil for lighting works, at 0.105 ....	5 25
10 gallons of cylinder oil, at 0.45.....	4 50
10 gallons of engine oil, at 0.335.....	3 35
Repairs on engines.....	6 62
Repairs on boilers .....	2 50
Tools and Stock .....	7 35
Sundries.....	4 80
Total       -       -       -       -       -       -       -	\$431 29

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Cost of pumping water into distributing mains per million gals., \$19.51—

LOWER BOULEVARD PUMPING STATION No. 4.  
 KNOWLES ENGINES.  
 RUNNING EXPENSES FOR THE YEAR 1902.

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Pay of Engineers and Firemen.....	\$ 6,331 06
567 443-2000 tons of coal (Cumberland, 1901), at \$3.983....	2,259 24
631 838-2000 tons of coal (Cumberland, 1902), at 3.982....	2,514 31
983 1914-2000 tons of coal (Cumberland, 1902), at 5.616....	5,525 90
153 100-2000 tons of coal (Cumberland, 1902), at 5.312....	813 00
69 695-2000 tons of coal (Cumberland, 1902), at 6.964....	482 94
600 gallons of kerosene oil for lighting works at 0.1025...	61 50
193.5 gallons of cylinder oil, at 0.417 .....	80 75
27 gallons of engine oil, at 0.35.....	9 45
107.12+ pounds of packing, at 1.182—.....	126 60
193 pounds of cotton waste, at 0.0737+.....	14 23
Repairs on engines.....	341 70
Repairs on boilers.....	509 40
Tools and stock....	85 44
Sundries .....	97 35
<hr/>	
Total - - - - -	\$19,252 87

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Cost of pumping water into conduit per million gallons, \$9.57—



UPPER BOULEVARD PUMPING STATION.  
 WORTHINGTON ENGINES.  
 RUNNING EXPENSES FOR THE YEAR 1902.

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Pay of Engineers and Firemen .....	\$ 430 25
33 1445-2000 tons of coal [Cumberland, 1902], at \$3.982....	134 28
135 878-2000 tons of coal [Cumberland, 1902], at 5.616....	760 63
16 gallons of cylinder oil, at 0.417 .....	6 67
3 gallons engine oil, at 0.35.....	1 05
50.25 pounds of packing, at 0.592.....	29 73
16 pounds of cotton waste, at 0.0775.....	1 24
24 pounds of tallow, at 0.05 .....	1 20
Tools and stock.....	11 18
Sundries.....	1 27
<hr/>	
Total        -        -        -        -        -        -        -	\$1,377 50

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Cost of pumping water into conduit per million gallons, \$8.48+

## RESERVIOR, BEACON STREET, 1902.

MONTHS.	Depth in Feet.	Quantity in U. S. Gallons.	Temperature in Degrees.	
			Of Water.	Of Air
January .....	19 23	29,216,172	43 95	25 10
February.....	18 88	28,631,261	40 23	27 49
March.....	18 27	27,627,404	37 79	42 31
April.....	19 45	29,594,002	38 07	47 52
May.....	17 95	27,004,563	40 48	59 09
June .....	19 39	29,482,792	45 58	65 94
July.....	19 78	30,140,340	52 56	69 04
August.....	19 69	29,997,115	57 32	68 01
September .....	19 86	30,285,120	59 32	62 34
October .....	19 65	29,926,954	58 71	52 51
November.....	10 61	29,849.827	56 70	44 38
December.....	19 59	28,144,321	51 44	27 29

TABLE SHOWING THE AVERAGE MONTHLY AND  
DAILY CONSUMPTION OF WATER FOR THE  
YEAY 1902.

MONTHS.	Gallons per Month.	Gallons per Day.
January .....	191,307.825	6,171,220
February .....	171,214,521	6,114,804
March .....	175,204,211	5,651,749
April ....	163,381,369	5,446,046
May .....	179,719,442	5,797,401
June .....	186,513,503	6,217,117
July .....	188,607,215	6,083,104
August .....	184,872,170	5,963,910
September .....	163,846,557	5,461,552
October .....	158,342,364	5,107,818
November .....	143,154,916	4,771,831
December .....	185,039,488	5,969,016
Totals and Averages.....	2,091,103,586	5,729,325

## SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31ST, 1902.

In form recommended by the New England Water Works Association.

## LOWELL WATER WORKS

LOWELL, MIDDLESEX COUNTY, MASSACHUSETTS.

## GENERAL STATISTICS.

Population by census of 1900, 94,969.

Date of construction, 1870 to 1873.

Date of construction, High Service, 1881.

Date of construction, Driven Wells, 1893 to 1903.

By whom owned : The City of Lowell.

Source of supply : Two hundred and ten (210) driven wells  
in the valley of River Meadow Brook, and three hun-  
dred forty-five (345) driven wells at Pawtucket Boule-  
vard.

Mode of supply : Pumping to reservoir and pumping direct.

## PUMPING STATISTICS.

## I. Builders of Pumping Machinery.

## AT WEST SIXTH STREET STATION. No. 1.

One engine, capacity 5,000,000 gallons in 24 hours, Henry G. Morris.

One engine, capacity 5,000,000 gallons in 24 hours, Henry R. Worthington.

One engine, capacity 10,000,000 gallons in 24 hours, Henry R. Worthington.

One engine, capacity 500,000 gallons in 24 hours, Henry R. Worthington.

AT COOK WELLS. No. 2.—Temporary Pumps.

One engine, capacity 3,000,000 gallons in 24 hours, The Deane Steam Pump Co.

One engine, capacity 3,000,000 gallons in 24 hours, The Deane Steam Pump Co.

AT LOWER BOULEVARD STATION. No. 4. Temporary Pumps.

One engine, capacity 3,000,000 gallons in 24 hours, Knowles Steam Pump Works.

One engine, capacity 3,000,000 gallons in 24 hours, Knowles Steam Pump Works.

AT UPPER BOULEVARD STATION. Temporary Pumps.

Transferred from Station No. 3.

One engine, capacity 3,000,000 gallons in 24 hours, Henry R. Worthington.

One engine, capacity 3,000,000 gallons in 24 hours, Henry R. Worthington.

2. Description of fuel used :  $\left\{ \begin{array}{l} \text{a. Kind, bituminous.} \\ \text{b. Brand of coal.} \\ \text{c. Average price of coal per gross ton,} \\ \text{delivered, \$5.48—} \\ \text{d. Percentage of ash,} \\ \text{e. Wood, price per cord, \$} \end{array} \right.$

3. Coal consumed for the year. 9,012,775 pounds, Low Service.

(3,749,273, West Sixth Street Station No. 1)

4. (Pounds of wood consumed)  $\div 3 =$  equivalent amount of coal = 2,400.

West Sixth Street Station No. 1.

- 4 a Amount of other fuel used.

5. Total equivalent coal consumed for the year = (3) + (4), 9,015,175 lbs.  
Low Service. (3,751,673 lbs. West Sixth Street Station No. 1.)

6. Total pumpage for the year, 2, 090,924,110 gallons.  
(2,068,814,990 gallons West Sixth Street Station No. 1.).
7. Average static head against which pumps work, 155.94 feet.  
West Sixth Street Station.
8. Average dynamic head against which pumps work, 162.31 feet.  
West Sixth Street Station.
9. Number of gallons pumped per pound of equivalent coal (5), 232.  
(551 West Sixth Street Station No. 1.)
10. 
$$\text{Duty} = \frac{\text{Gallons pumped (6)} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}} =$$
  
74,646,252. West Sixth Street Station No. 1.  
Cost of pumping figured on pumping station expenses, viz: \$39,397.07
11. Per million gallons pumped, \$18.84+
12. Per million gallons raised one foot (dynamic), \$0.11 61-100  
West Sixth Street Station No. 1.

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The State Board of Health has made analyses of water each month from the Merrimack River (for record only), wells at Pawtucket Boulevard and West Sixth Street Pumping Station, a record of which is annexed.

Respectfully submitted,

GEORGE BOWERS,

City Engineer.

COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH, LOWELL  
WATER ANALYSIS.—Merrimack River. (Parts in 100,000.)

NO.	DATE OF		APPEARANCE.			ODOR.		RESIDUE ON EVAPORATION.			AMMONIA.			Nitrogen as		Hardness.	Iron.	Oxygen Consumed.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total.	Loss in light.	Fixed.	Free.	Total.	In solution.	In suspension.	Nitrates.	Nitrites.		
38,752	Jan. 22	1902. 23	slight	slight	.29	faintly unpleasant	distinctly unpleasant	4.05	2.00	2.05	.0636	.0148	.0124	.0024	.0020	.0001	.8	.54
39,155	Feb. 25	26	slight	slight	.24	faintly unpleasant	distinctly unpleasant	3.50	1.50	2.00	.0060	.0130	.0104	.0026	.0090	.0000	.8	.42
39,453	Mar. 27	28	slight	slight	.27	faintly vegetable	distinctly vegetable	2.60	1.30	1.30	.0006	.0128	.0100	.0028	.0051	.0000	.6	.44
39,862	April 30	May 1	decided	cons.	.36	faintly unpleasant	faintly unpleasant	2.80	1.00	1.80	.0010	.0168	.0140	.0028	.0090	.0001	.8	.65
40,257	May 27	29	none	slight	.29	none	faintly vegetable	3.10	1.30	1.80	.0040	.0150	.0118	.0032	.0050	.0001	.6	.60
40,776	June 24	25	v slight	cons.	.32	faintly vegetable	distinctly vegetable	3.35	1.25	2.10	.0040	.0178	.0156	.0022	.0050	.0001	.6	.68
41,333	July 24	25	v slight	slight	.31	none	faintly vegetable	3.40	1.50	1.90	.0054	.0166	.0156	.0010	.0080	.0002	.8	.54
41,915	Aug. 27	28	decided	cons.	.38	faintly unpleasant	faintly unpleasant	3.40	1.35	2.05	.0066	.0180	.0142	.0038	.0050	.0002	1.1	.68
42,448	Sept. 25	26	slight	cons.	.32	faintly vegetable	distinctly vegetable	5.00	2.30	2.70	.0078	.0164	.0130	.0034	.0020	.0002	.	.55
43,009	Nov. 3	4	slight	slight	.55	faintly unpleasant	distinctly unpleasant	3.90	1.65	2.25	.0018	.0144	.0138	.0006	.0010	.0000	.8	.80
43,299	Nov. 25	26	v slight	slight	.41	faintly vegetable	distinctly vegetable	3.80	1.50	2.30	.0080	.0146	.0132	.0014	.0050	.0001	1.1	.57
43,630	Dec. 30	Jan. 1	slight	slight	.35	v faintly vegetable	faintly vegetable	3.50	1.50	2.00	.0020	.0150	.0134	.0016	.0050	.0001	1.1	.60

# COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH, LOWELL

## WATER ANALYSIS.—Boulevard Wells. (Parts in 100,000.)

NO.	DATE OF		APPEARANCE.			ODOR.		RESIDUE ON EVAPORATION.			AMMONIA.				Chlorine	Nitrogen as		Hardness	Iron	Oxygen Consumed
	Collection	Examination.	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total.	Loss on ignition.	Fixed.	Free.	Albuminoid.		Nitrates		Nitriles				
												In solution.	Insuspen-sion.							
38,753	Jan. 22	1902. 23	slight	slight	.07	none	none	5.00	....	....	.0036	.0018	....	....	.24	.0190	.0000	1.6	.0300	.08
39,156	Feb. 25	26	none	v slight	.08	none	none	3.50	....	....	.0036	.0022	....	....	.23	.0250	.0000	1.3	.0160	.07
39,454	Mar. 27	28	v slight	v slight	.07	none	none	3.90	....	....	.0064	.0028	....	....	.21	.0210	.0000	1.3	.0550	.08
39,863	April 30	May 1	none	none	.00	none	none	3.60	....	....	.0000	.0020	....	....	.22	.0400	.0000	1.8	.0030	.03
40,258	May. 27	29	v slight	v slight	.08	none	none	3.00	....	....	.0058	.0028	....	....	.20	.0210	.0001	1.3	.0250	.08
40,777	June 24	25	none	none	.00	none	none	3.80	....	....	.0010	.0038	....	....	.18	.0220	.0001	1.3	.0050	.06
41,334	July 24	25	v slight	v slight	.03	none	none	4.80	....	....	.0042	.0040	....	....	.16	.0100	.0003	1.3	.0200	.09
41,916	Aug. 27	28	none	v slight	.10	none	none	4.10	....	....	.0056	.0064	...	....	.21	.0060	.0000	1.4	.0480	.10
42,449	Sept. 25	26	none	none	.08	none	none	4.50	....	....	.0042	.0040	....	....	.22	.0060	.0000	1.3	.0210	.11
43,010	Nov. 3	5	v slight	v slight	.10	none	none	4.00	....	....	.0054	.0048	....	....	.22	.0030	.0000	1.4	.0380	.10
43,300	Nov. 25	26	v slight	slight	.09	none	none	4.50	....	....	.0048	.0036	....	....	.19	.0080	.0000	1.8	.0600	.10
43,632	Dec. 30	Jan. 1	v slight	slight iron	turbid .20	none	none	4.00	....	....	.0090	.0036	....	....	.25	.0250	.0000	1.7	.0400	.09



COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH, LOWELL  
WATER ANALYSIS.—Pumping Station. (Parts in 100,000.)

NO.	DATE OF		APPEARANCE.			ODOR.		RESIDUE ON EVAPORATION.		AMMONIA.					Nitrogen as		Hardness.	Iron	Oxygen Consumed.
	Collection	Examina- tion.	Turbidity.	Sediment	Color.	Cold.	Hot.	Total.	Loss on Ignition	Fixed	Albuminoid.			Chlorine.	Nitrates	Nitrites.			
											Free	Total.	in solu- tion.						
38,754	Jan. 1902. 22 23		none	none	.02	nnoe	none	4.70	....	....	.0026	.0020	....	.27	.0380	.0000	1.7	.0150	.06
39,455	Mar. 27 28		v slight	none	.07	none	none	4.00	...	....	.0048	.0032	....	.23	.0460	.0000	1.6	.0160	.08
39 864	Apr. May 30 1		slight	cons. iron	.09	none	none	4.60	....	....	.0000	.0054	....	.22	.0680	.0000	1.8	.0800	.10
40,259	May 27 29		none	v slight	.05	none	none	4.10	....	....	.0050	.0038	....	.23	.0430	.0000	1.8	.0050	.08
40,778	June 24 25		none	v slight	.00	none	none	4.30	....	....	.0066	.0022	....	.22	.0480	.0000	1.4	.0050	.07
41,335	July 24 25		v slight	none	.01	none	none	5.00	....	....	.0014	.0034	....	.18	.0240	.0001	1.4	.0080	.13
41,917	Aug. 27 28		v slight	none	.02	none	none	3.60	....	...	.0014	.0030	....	.24	.0130	.0000	1.4	.0150	.09
42,450	Sept. 25 25		v slight	none	.03	none	none	4.00	....	....	.0014	.0036	....	.25	.0150	.0000	1.7	.0080	.09
43,011	Nov. 3 5		v slight	v slight	.06	none	none	4.50	....	....	.0026	.0036	....	.24	.0130	.0000	1.4	.0140	.09
43,301	Nov. 25 26		v slight	slight	.05	none	distinctly unpleasant S. O <sub>2</sub>	4.60	....	....	.0034	.0050	....	.27	.0240	.0000	1.8	.0150	.09
43,631	Dec. Jan. 30 1		slight	cons. iron	.01	none	none	4.00	....	....	.0060	.0044	...	.29	.0400	.0000	1.8	.0150	.07





CITY OF LOWELL



1903.

REPORT

OF THE

COMMITTEE ON APPROPRIATIONS.

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CITY HALL,

Lowell, Mass., March 24, 1903.

TO THE CITY COUNCIL:

Your Joint Standing Committee on Appropriations, having considered carefully all the estimates presented to them for the current year by the various departments, submit the following report in accordance with the Ordinance :

The Committee entered upon the duties realizing the almost insurmountable difficulties that were before them, and that the task was not one of pleasure but one of stern duty, and that more than careful consideration must be given every detail.

The Committee have been united and impartial, and have had but one aim in view—to protect every interest of our City, its taxpayers and the laborers.

The Committee have held fourteen meetings, all of which have been open to the general public.

There are some facts in relation to the finances of the City that have become very serious problems, and the real situation, perhaps, is not known to every one.

The City has a large family with a very small income, and the liabilities are growing greater every year and the income smaller. The valuation is growing lower in many parts of the City, and in many cases property will not sell for near its assessed value. We will mention three illustrations. One, a valuable residence that cost nearly \$56,000 and was taxed for \$25,000, sold for \$12,500; another, very close to City Hall, taxed for \$3.00 per foot, sold for \$1.50 per foot, with all the buildings thereon. Still another example: Eleven good building lots were purchased and taxes paid on them for over eighteen years; finally a sewer was built abutting the property, edgestones were laid and the assessments paid, and the owner sold the whole property for just what had been paid for the sewer and edgestone assessments, losing all he paid at first, the taxes and interest for eighteen years.

This goes to show that what has been stated in regard to valuation is true. There seems to be a gradual increase in most of the department expenses each year.

A substantial reduction in the City debt should be made annually. We are deprived of the money collected for licenses by vote of the people. This amount is over \$130,000.

The estimated revenues from all the departments is nearly \$45,000 less than in 1902, making a total deficiency in the revenue for current expenses of nearly \$175,000 less than in 1902. The total amount that can be appropriated for all current expenditures is \$1,113,165.09.

The department estimates for 1903 called for over \$313,000 more than our total revenues, and after going carefully over the various estimates and cutting each one to the lowest possible point, even to the limit in nearly every case, the Committee find that they are \$117,000 still short of the necessary money for the departments' expenses.

The Committee find it impossible to meet the actual honest requirements of the several departments with the amount of revenue at their command, and a loan will have to be made some time during the year. There is no other remedy. It is the opinion of the Committee that it is better to appropriate what available revenue there is, and recommend at first only a part of the money needed for the School Department. Knowing full well that this amount will not be sufficient for them, we would recommend that a loan be made later in the year as their necessities require. The Committee have taken the only course left to them.

It is believed that the amounts recommended, with the exception of the School Department, will be sufficient and enable each one to live within its appropriation for the year. It seems to the Committee that the expenses of the School Department are extremely large. While there has been no material increase in the number of scholars, there has been quite an increase in expenses, and particularly in salaries, as the salary list for school teachers, assistants and janitors in the School Department exceed \$289,000.00. These expenses are steadily increasing each year, and, in fact, the salary list and permanent pay-rolls of the City Departments now aggregate over \$653,000.00, and are constantly increasing.

As a result of the efforts of your committee the tax rate for 1903 will in all probability be no larger than in 1902, and may be slightly less.

# Estimated Revenue, 1903.

Valuation real and personal property, 1902 .....	\$71,725,423 00
Amount allowed to be raised by taxation for ordinary expenses .....	\$860,705.08

## ESTIMATED REVENUE BASED ON REVENUE FOR 1902.

Incidentals .....	\$ 3,500 00
City Cemeteries.....	7,000 00
City Clerk .....	1,500 00
City Weigher .....	162 00
City Sealer.....	340 00
City Treasurer .....	2,300 00
Commons .....	820 00
Corporation Tax.....	78,971 61
Fire.....	230 00
Health .....	5,000 00
Huntington Hall .....	3,000 00
Inspector of Milk.....	100 00
Military Aid	} 19,000 00
Soldiers' Relief .....	
State Aid .....	
Pauper Dept. (Almshouse)...	920 00
PauperDept.(Outdoor Relief)	5,500 00
Police.....	10,500 00
Public Buildings .....	2,450 00
Schools .....	4,500 00
Sewer Construction.....	25,000 00
Streets.....	14,000 00
Watering Streets .....	15,000 00
Interest.....	23,000 00
National Bank Tax .....	8,166 51
Excise Tax .....	7,155 43
Armory Rent .....	1,200 00
Street Railway Tax.....	7,884 96
Lighting .....	45 00
Andover Street Layout.....	6,258 00
Total .....	<u>\$253,503 51</u>
Less General Treasury Fund	
Deficit, Jan. 1, 1903 .....	<u>1,043 50</u>

\$252,460 01

Total estimated revenue

\$1,113,165 09



## Limit of Indebtedness.

Limit of indebtedness for 1903		
is 2½ % on average valuation for three years past, which is \$71,418,016.00....		
Total City Debt, Jan. 1, 1903.	\$3,601,775 29	\$1,785,450 40
Deduct for Water Loans.....	\$1,205,500 00	
Deduct amount exempted by Legislature.....	800,000 00	
Deduct Sinking Funds which apply to limit.....	143,272 42	
	<u>2,148,772 42</u>	
City Debt as it relates to limit of indebtedness		\$1,453,002 87
Distance from limit, Jan. 1, 1903 .....		\$332,447 53

## Department Expenses for 1902 — Estimates for 1903 — Amount Recommended by Committee on Appropriations.

	Department Expenses 1902.	Department Estimates 1903.	Committee Recommends 1903.
Assessors .....	\$14,173 50	\$14,500 00	\$14,190 00
Auditor.....	3,883 10	4,171 50	4,171 50
Care of City Hall.....	7,345 07	7,421 75	7,321 75
City Cemeteries .....	8,958 17	9,422 00	7,000 00
City Clerk.....	5,257 40	5,615 00	5,615 00
City Treasurer.....	11,038 50	11,252 71	11,038 50
City Sealer .....	424 15	430 00	430 00
City Weigher.....	811 75	1,315 00	815 00
City Messenger.....	2,590 11	2,900 00	2,900 00
Clerk of Committees .....	1,359 80	1,400 00	1,400 00
Clerk of Common Council...	300 00	300 00	300 00
Commons .....	11,389 21	12,042 00	10,000 00
Corporation Tax Fund.....	* 12,155 39	* 7,036 24	1,000 00
Elections .....	6,492 56	6,798 00	6,000 00
Engineering. ....	16,224 29	7,500 00	7,500 00
Fire.....	\$ 127,906 02	\$ 134,608 00	128,343 00
Fish Warden.....	40 00	40 00	40 00
Health.....	52,613 19	46,267 00	45,098 00
Heating C. H. and M. B.....	5,811 54	6,500 00	6,100 00
Huntington Hall .....	4,764 96	5,229 50	4,750 00

\* Outstanding bills, \$2,089 36.

§ Including underground wires.

	Department Expenses 1902.	Department Estimates 1903.	Committee Recommendations 1903.
Incidentals .....	4,126 45	2,500 00	2,500 00
Insurance .....	4,710 01	4,248 12	4,248 12
Inspection of Milk & Vinegar,	2,309 65	2,415 50	2,399 15
Inspection Animals & Provs.,	500 00	500 00	500 00
Inspection of Wires .....	3,047 61	2,624 00	2,624 00
Law .....	6,145 82	6,145 82	6,145 00
Library .....	16,450 41	17,580 25	16,000 00
Lighting .....	98,401 14	100,379 67	100,379 67
Mayor .....	5,049 44	4,925 00	4,925 00
Pauper (Alms-house) .....	+ 66,189 74	† 82,702 40	53,270 00
Pauper (Outdoor Relief) ....	61,229 42	55,790 49	55,790 49
Pound Keeper .....	5 00	5 00	5 00
Police .....	\$ 140,936 25	\$ 149,992 50	142,992 50
Public Buildings .....	16,928 16	31,147 00	17,431 35
Registrars of Voters .....	3,933 38	4,007 00	3,933 38
Rifle Range .....	702 48	817 21	700 00
Schools .....	284,680 00	309,300 00	148,000 00
School Houses .....	57,488 75	59,140 50	55,140 50
Sewer Maintenance .....	26,691 24	28,190 00	23,500 00
State Aid .....	32,205 54	32,900 00	32,900 00
Streets .....	149,787 27	224,769 00	145,859 39
Sewer Construction .....	97,160 13	.....	
Supplies .....	6,263 48	6,205 20	6,205 20
Watering Streets .....	14,194 35	15,184 00	15,000 00
Water Works .....	208,400 99	.....	
Totals .....	\$1,601,075 42	\$1,426,217 36	\$1,104,461 50

† Including receipts.

§ Including underground wires.

FIXED CHARGES.	1902.	1903.	Decrease.
City Debt .....	\$289,500 00	\$274,338 50	\$15,161 50
Interest .....	125,000 00	125,000 00	.....
Sinking Funds .....	43,300 00	41,300 00	2,000 00
	<u>\$457,800 00</u>	<u>\$440,638 50</u>	<u>\$17,161 50</u>

### Summary of Anticipated Receipts and Appropriations, 1903.

Amount which Assessors are directed to raise by taxation .....	\$1,301,000 00	
Revenue Estimated.....	252,460 01	\$1,553,460 01
	<hr/>	
Fixed charges .....	440,638 50	
Appropriated for Departments .....	1,104,461 50	1,545,100 00
	<hr/>	<hr/>
Balance left in General Treasury Fund,		\$8,360 01

Your Committee introduce the accompanying Joint Orders and recommend the adoption of the same.

Respectfully submitted.

LUCIUS A. DERBY, *Chairman*,  
 DAVID GEROW,  
 JAMES F. MISKELLA,  
 CECIL L. ADAMS,  
 ASA B. HILLIARD,  
 PATRICK F. WELCH.

*Committee on Appropriations.*

## CITY OF LOWELL.

In Board of Aldermen, March 24, 1903.

Order to appropriate Money to meet Fixed Charges and Current Expenses.

Ordered, if the Common Council concur, That the following sums, amounting to One Million, Five Hundred Forty-five Thousand, One Hundred Dollars (\$1,545,100.00) be and they are hereby appropriated to meet the Fixed Charges and Current Expenses of the City of Lowell for the year beginning January 1, 1903, and ending December 31, 1903.

## Assessors.

Salaries.....	\$12,600 00	
Sundries.....	1,590 00	
	<hr/>	\$14,190 00

## Auditor.

Salaries.....	3,521 50	
Sundries.....	650 00	
	<hr/>	4,171 50

## Care of City Hall.

Labor.....	5,318 00	
Police Officer.....	1,003 75	
Sundries.....	1,000 00	
	<hr/>	7,321 75

City Cemeteries .....	7,000 00
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## City Clerk.

Salaries .....	4,548 00	
Sundries.....	1,067 00	
	<hr/>	5,615 00

## City Messenger.

Salary .....	1,200 00	
Sundries .....	400 00	
Lighting City Hall and Memorial Building	1,300 00	
	<hr/>	2,900 00

City Sealer.		
Salary .....	\$350 00	
Sundries .....	80 00	
	<hr/>	\$430 00
City Treasurer.		
Salaries.....	7,226 71	
Sundries .....	3,811 79	
	<hr/>	11,038 50
City Weigher.		
Salary .....	800 00	
Sundries .....	15 00	
	<hr/>	815 00
Clerk of Committees.		
Salary .....	1,200 00	
Sundries .....	200 00	
	<hr/>	1,400 00
Clerk of Common Council .....		300 00
Commons Department.		
Labor.....	8,000 00	
Sundries.....	2,000 00	
	<hr/>	10,000 00
Corporation Tax Fund.....		1,000 00
Elections .....		6,000 00
( Principal Election Officers \$8 per day; Deputies \$1 per day.)		
Engineering .....		7,500 00
Fire Department.		
Salaries.....	106,343 00	
Sundries .....	22,000 00	
	<hr/>	128,343 00
Fish Warden .....		40 00
Health (Office).		
Salaries and labor, including salary of Bacteriologist.....	8,998 00	
Sundries.....	2,700 00	
	<hr/>	11,698 00
Health (Yard).		
Labor.....	27,400 00	
Sundries.....	6,000 00	
	<hr/>	33,400 00

Heating City Hall and Memorial Building.		
Labor.....	\$3,000 00	
Fuel.....	2,500 00	
Sundries.....	600 00	
	<hr/>	\$6,100 00
Huntington Hall.....		4,750 00
Incidentals .....		2,500 00
Inspector of Animals and Provisions .....		500 00
Inspector of Milk and Vinegar.		
Salaries.....	2,215 50	
Sundries.....	183 65	
	<hr/>	2,399 15
Insurance.....		4,248 12
Inspector of Wires.		
Salaries and labor.....	2,124 00	
Sundries.....	500 00	
	<hr/>	2,624 00
Law.		
Salaries.....	4,826 00	
Sundries.....	1,319 00	
	<hr/>	6,145 00
Library .....		16,000 00
Lighting.		
Lighting Streets .....	100,049 67	
Lighting Public Buildings.....	30 00	
Sundries.....	300 00	
	<hr/>	100,379 67
Mayor.		
Salaries.....	4,200 00	
Sundries.....	425 00	
Stenography and extra clerk hire .....	300 00	
	<hr/>	4,925 00
Paupers (Almshouse).		
Salaries.....	2,700 00	
Labor.....	12,000 00	
Grain, groceries and provisions.....	*18,000 00	
Sundries, including fuel.....	20,570 00	
	<hr/>	53,270 00

\* And Estimated Receipts.

Paupers (Outdoor Relief).		
Salaries.....	\$3,782 50	
Transportation and office sundries .....	725 00	
General Sundries .....	51,282 99	
	<hr/>	\$55,790 49
Police.		
Salaries of Police Board and Clerk of		
Police Board .....	5,000 00	
Salaries and labor Police Department....	132,492 50	
Sundries .....	5,500 00	
	<hr/>	142,992 50
Pound Keeper .....		5 00
Public Buildings.		
Salaries, including clerk .....	\$2,426 00	
Labor.....	* 7,730 35	
Sundries.....	7,275 00	
	<hr/>	17,431 35
* And Est. Receipts.		
Registrars of Voters.		
Salaries and clerk hire.....	2,898 75	
Printing and sundries.....	1,034 63	
	<hr/>	3,933 38
Rifle Range .....		700 00
Schools.		148,000 00
School Houses.....		
Labor, including clerk.....	10,126 00	
Janitors .....	36,514 50	
Sundries.....	8,500 00	
	<hr/>	55,140 50
Sewer Maintenance.....		23,500 00
State Aid.		
Salaries and sundries .....	2,100 00	
Military Aid .....	6,500 00	
Soldiers' Relief .....	9,000 00	
State Aid.....	15,300 00	
	<hr/>	32,900 00
Streets.		
Salaries.....	3,900 00	
Yard labor.....	10,798 39	
Labor on Streets and Boulevard .....	85,800 00	
Sundries.....	45,361 00	
	<hr/>	145,859 39

## Supplies.

Salaries and labor .....	\$5,369 20	
Sundries .....	836 00	
	<hr/>	\$6,205 20

Watering Streets.....		15,000 00
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Department total.....		<hr/> \$1,104,461 50
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## FIXED CHARGES.

City Debt.....	\$274,338 50	
Interest.....	125,000 00	
Sinking Funds.....	41,300 00	
	<hr/>	440,638 50

Total .....		<hr/> \$1,545,100 00
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(Adopted.)



## CITY OF LOWELL.

In Board of Aldermen, March 24, 1903.

Order relating to Report of Committee on Appropriations.

Ordered, if the Common Council concur, That a sufficient number of copies of the report of the Committee on Appropriations be printed for, and that they be included in, the published volumes of the Lowell City Documents for the year 1903, the expense of the printing to be charged to the Appropriation for Incidentals.

(Adopted.)

## CITY OF LOWELL.

In Board of Aldermen, March 24, 1903.

Order to Assess Taxes for the year Nineteen Hundred and Three.

Ordered, if the Common Council concur :—

First.—That the Board of Assessors of the City of Lowell be, and they are hereby instructed to raise the sum of One Million, Three Hundred One Thousand Dollars (\$1,301,000.00) by assessment upon Polls and Estates of the Inhabitants of the City of Lowell, and Estates of Non-Resident Proprietors, according to law, to defray the current expenses of the City for the financial year beginning January 1, 1903, and ending December 31, 1903.

Second.—That interest at the rate of six per centum per annum shall be charged on all taxes under this order which remain unpaid on and after the twentieth day of

October, 1903, until the same shall be paid, and such interest shall be added to and be considered a part of said Taxes.

Third.—That a copy of this Order shall be furnished to the Board of Assessors by the City Clerk within ten days after the approval of the same.

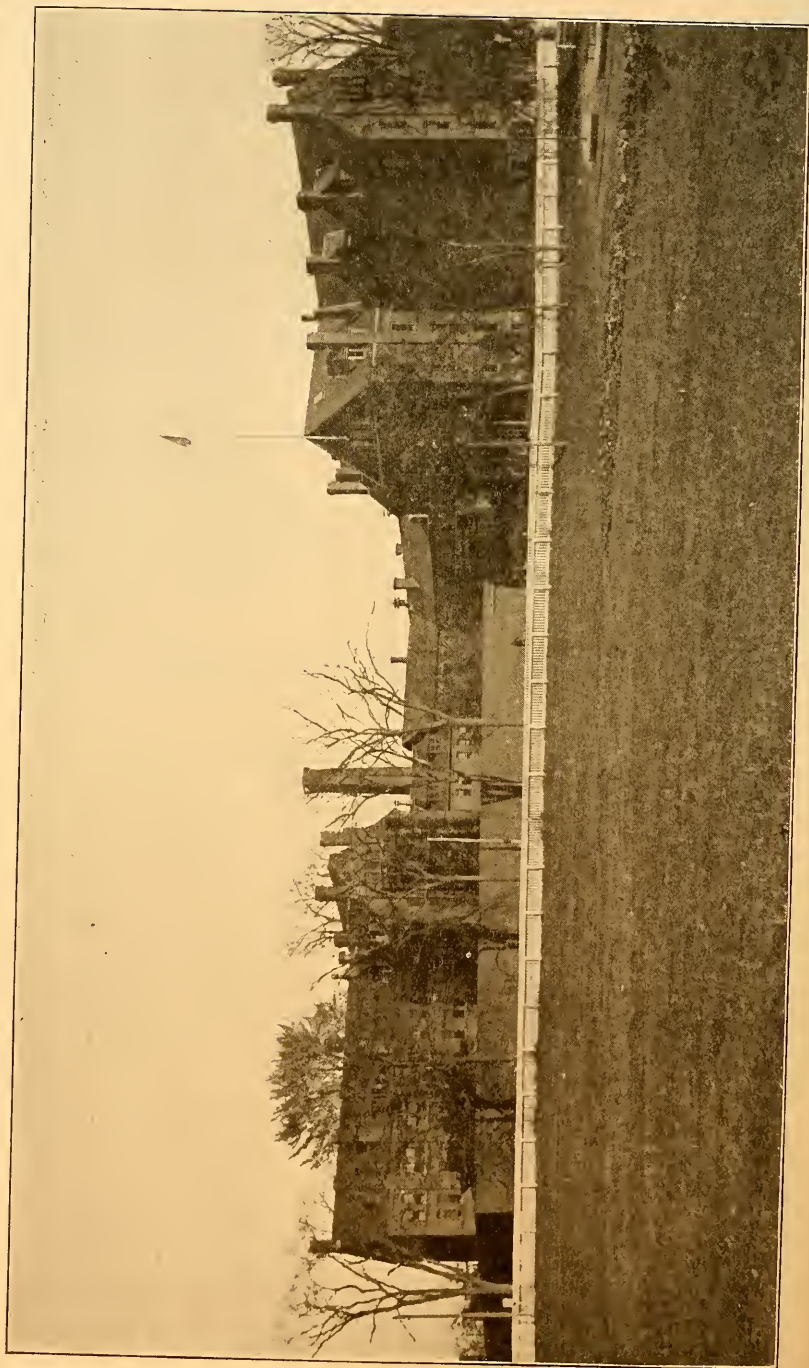
(Adopted.)



ANNUAL REPORT  
OF THE  
Overseers of the Poor  
FOR THE  
CITY OF LOWELL  
WITH ACCOMPANYING PAPERS  
FOR MUNICIPAL YEAR  
1902



LOWELL, MASS.,  
BUTTERFIELD PRINTING COMPANY.  
1903.



HOSPITAL AND ALMSHOUSE

# BOARD OF OVERSEERS OF POOR.

LOWELL, MASS., 1903.

Ward 1—SAMUEL HOLGATE . . .	46 Bowditch Street
Term expires Dec. 31, 1903.	
Ward 2—FRANCIS McMAHON, . . .	97 Adams Street
Term expires Dec. 31, 1903.	
Ward 3—JOHN F. McCOY . . . . .	21 Bellevue Street
Term expires Dec. 31, 1903.	
Ward 4—THOMAS F. SHEEHAN . . .	42 Kinsman Street
Term expires Dec. 31, 1903.	
Ward 5—MARTIN F. CONLEY . . . .	24 Andover Street
Term expires Dec. 31, 1904.	
Ward 6—EDWIN S. EASTMAN . . . .	96 West Street
Term expires Dec. 31, 1904.	
Ward 7—CLARENCE G. COBURN . . .	9 Mammoth Road
Term expires Dec. 31, 1904.	
Ward 8—CHARLES E. TILTON . . . .	103 So. Walker St.
Term expires Dec. 31, 1904.	
Ward 9—PATRICK J. McDERMOTT . .	384 Concord Street
Term expires Dec. 31, 1904.]	

## Secretary and Superintendent of Outdoor Relief.

MARTIN J. COURTNEY . . . . .	26 Ames Street
Office, City Hall. 9 A. M. to 4 P. M.	

## Clerks.

JAMES F. WALSH                      Miss NELLIE A. KEYES

## Superintendent Indoor Poor and Master of Workhouse.

DR. CHAS. E. DONLAN      Office and Residence, Almshouse  
JOHN J. MAHONEY, Clerk.

## City Dispensary, City Hall.

EDWIN F. MASON, Clerk . . . . . 69 Fourth Avenue  
Hours: 9 A. M. to 5 P. M.

## Ambulance Service.

DR. P. F. SULLIVAN, Ambulance Physician	Associate Bldg.
GEORGE B. McKENNA, Driver . . . .	14 Cedar Street
JAMES McGLYNN, Driver . . . . .	35 Reservoir Street
JAMES F. GEOGHEGAN . . . . .	205 Church Street
JOHN J. CUFF. . . . .	18 Agawam Street

Telephone 437-4.



LOWELL, January 1, 1903.

*To His Honor the Mayor and the Honorables the Members of the  
City Council of the City of Lowell, Mass.*

GENTLEMEN:—In accordance with the provisions of the charter of the City of Lowell I hereby present the following as the report of the Overseers of the Poor department for the fiscal year ending December 31, 1902.

HUGH C. McOSKER, *Chairman,*

*For the Overseers of the Poor.*





REPORT OF THE SECRETARY  
OF THE  
OVERSEERS OF THE POOR

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LOWELL, January 1, 1903.

*To the Board of Overseers of the Poor,  
City of Lowell, Mass.*

GENTLEMEN :—

In accordance with the provisions of the rules of the Overseers and the City Charter, I herewith submit my annual report as Superintendent of Out Door Poor for the year 1902. Following the context will be found the customary list of tables which will serve to show to you, and to the public in general, the exact manner in which the expenditures have been made, and the costs of the various branches of the department.

While the total amount expended is larger than ever before there has been no material increase in the branches over which we have direct control, except in

the cash allowances and ambulance service. The outdoor relief, i. e. the giving of fuel and provisions, would have shown a very material decrease had not the scarcity of coal during the fall and winter made such great want. Up to September 1st, the amount given was nigh unto five hundred dollars less than in the preceding year and with ordinary times for the balance of the year the amount would have been close on to one thousand dollars less. In view of the fact that the necessities of life have been much higher in 1902 than for many years before, such a showing would have been a creditable one. But the scarcity of coal and wood, and the consequent high cost of getting fuel, made much distress and the demands on the office have been for the past few months, more numerous than ever before. This has brought the expenditures for the year up considerably; still we are \$132.23 less on orders from the farm and \$204.00 less on orders from stores than in 1901.

The present outlook would indicate a large expenditure in this branch of the department, for the current year. In the present crisis the question of worthiness or unworthiness is almost lost sight of and has but little bearing on the decision of who shall be aided. In severe times it is better to assist many unworthy families lest in refusing you might deprive one worthy family of help. A death from starvation or neglect would never be pardoned by the general public, if it followed a refusal to assist by this office because we deemed the family unworthy. On this account many are being assisted at present who would be refused in ordinary times. When affairs resume their normal conditions the sifting of the

unworthy from the worthy will be resumed. Much good would be done if the members of the Board would acquaint themselves with the recipients of aid in their respective districts. Too much investigation cannot be made and the person living in the neighborhood can get at the real condition of the family better than a casual visitor. A thorough understanding of the needs of the family oftentimes prevents pauperism in worthy cases and always prevents a useless giving. One other beneficial result from such investigations would be the moral effect on the unworthy. When they know that they are under constant surveillance they would be more wary of asking for help.

During the year an ineffectual attempt was made to organize an associated charities bureau. I regret exceedingly that such an attempt did not meet with more success. I know that much good would come from such a bureau and that the assistance to this office would be considerable. I doubt if there is another city of its size in the union so destitute of private charity organizations as is ours.

At the national convention of charitable organizations, which I have attended the past two years, I have had this fact brought very forcibly to my notice. The scope of many of those organizations is not limited to the mere giving of assistance to tide over temporary destitution. They go further and work on a broader gauge. They seek to relieve the cause of the destitution and work to improve the conditions of the poor. They have friendly visitors who go around, each in his, or her, own district, and are in perfect touch with all the poor found therein. They have sewing circles where sewing

is taught, laundries where plain laundry work is taught, and many other branches of work where men and women can be taught sufficient to enable them to make a start on the road to self support. St. Louis has a laundry of this kind that can give instruction to 200 women and girls at one time and has been a success since its opening.

Many organizations start penny savings banks and the amounts deposited reach a surprisingly high figure. All over the country the work of private charities is constantly increasing and their usefulness is incalculable. In the larger cities what are known as "charity settlements" are established in poor sections wherein bands of trained charity workers reside and do their work of relieving distress in their neighborhood. There is something fascinating about the work and I am sure if our people would once become interested in it there would be no complaint for a lack of interest.

To show the field this city presents for charity workers let me mention some few of the many cases that have come within my notice in the past few weeks. During the real cold spell a few weeks ago our provision wagon driver told me of a case in Belvidere which had been called to his notice. I went there immediately and this is what I found: Huddled together in an unkempt and poorly furnished kitchen in one of the poorest sections of that district, were five children, three girls ranging from 13 years to 8 years, a boy of 7 years and an infant in a baby carriage. Their mother is dead and their father "had gone out to take a walk." There was no fire in the stove nor had there been for twelve hours previous. The interior of the kitchen was even

colder than out doors and how the children kept from freezing is a mystery. The girls had no warm clothing whatever, their dresses consisting of light calico prints. The boy had on only a pair of knee trousers and an undershirt with no buttons in the front. He had neither shoes nor stocking and in order to keep warm lay on an old tick that fitted in between the stove and the wall. The infant lay cuddled in a bundle of rags and was the only individual in the room who was not pinched and blue with the cold.

In the central section of the city a few weeks ago I was sent for to look after an old lady who was said to be very sick. The scene I found there beggars description. She was wrapped up in several ragged quilts, in a dirty bed and within a few hours of her death. Not a trace of a fire was there and the house had not been cleaned up for many a day. She was headstrong and stubborn and resented all friendly overtures from her neighbors. Hospitals or the City Farm were places of terror to her and it was only by promising to take her to one of her relatives that I gained her consent to go in the ambulance. She died in less than twelve hours after we moved her.

Other cases, equally as touching, are constantly coming before us. They serve to show how a little timely assistance could avert such misery. With each section of the city having its own charity workers, who would be in touch with all the needy therein, intense suffering would be reduced to a minimum. During the last Christmas holidays many of the churches had some of their societies dispensing articles to the needy and their work cannot be praised too highly.

For some years past there has been considerable talk about the establishment of a city store where the out door relief orders would be filled. The buildings at the ambulance stable could be utilized for this purpose and the location would be excellent. Last year the committee to whom this matter was referred went so far as to get an estimate of the cost of altering one of the buildings, but there the matter stopped. This year I believe we should complete the transfer. The cost at the outset might seem considerable but I believe it will be warranted by the business improvement hereafter. It would not require an extra man to run this store as the provision wagon driver and the ambulance men could be used.

One great benefit arising from such a store would be the doing away with the orders on grocery stores that are sometimes given at present. While those orders, principally for \$3 worth of provisions, are given only in extreme cases, either on account of sickness or old age, represent an expenditure of less than \$1800 per annum, and are invariably given to dealers of recognized standing, still they are very objectionable to many people. Those base their objection on the opportunity the system offers to allow the recipient and the dealer to come to an understanding whereby the dealer can purchase the orders for cash at an amount considerably less than \$3. The possibilities of such a collusion are certainly present, but I doubt very much if they are ever taken advantage of. I have more faith in the honesty of our dealers and we know pretty well the ones to whom those orders are given. I am inclined to the opinion that those objections are based more on imaginary fears than on real facts.



Still I am much opposed to the system we have at present. I don't like orders on stores nor do I like the delivery of orders from the farm. In the work of out door relief I think there should be no connection with the almshouse. It not only removes the base of supplies to an unnecessary distance from the city but causes a waste of goods in a year that amounts to considerable. The provision order given to the applicant being a staple one, consisting of the same amount of the different articles which go to make it up, is given entirely in every case, whereas in some instances a less amount would do. Again some of the articles are not acceptable to all who receive them and as a result they go to waste. With a city store established I would look to see the saving in unfilled orders reach a very respectable amount. The recipients could have the articles they want in the quantities they desire and there would be much improvement all around.

The total amount expended for food and fuel last year was \$13,961.68 against \$14,168.59 in 1901. Of this amount \$2,011.80 went to the residents of this city who have settlements elsewhere and the balance to Lowell's poor. The total number of families aided in 1902 was 801, consisting of 1217 males and 1502 females. The year previous the total number of families aided was 779 consisting of 1138 males and 1475 females. The number of new histories taken during the year was 351 being 70 less than the year before. The total number of burials was 124, the expense for the same being \$676.50. One hundred and four persons were sent to the State hospital.



## CITY DISPENSARY.

The business of the city dispensary has kept up well during the year. The total number of cases treated was 2655 and the number of prescriptions compounded was 8896. The cost of the dispensary was \$1814.31 of which \$994.71 was for salary of druggist and \$819.60 for medicines. This makes the average cost of prescriptions less than ten cents each. During the year the card index spoken of last year was introduced and over 800 cards have been tabulated. The showing of this branch of the department is certainly creditable to Druggist Mason and it is a pleasure for me to state to the members that during his incumbency not a single complaint of his department has ever reached me.

The tendency of some of the dispensary physicians to write for medicines not on the formulary list in use should be discouraged. Not that we desire to restrict the physicians in their prescriptions and are very willing to get any drug or medicine required in every case, but we do object to indiscriminate writing for patent medicines, many of which are of untried value, and all of which can be easily substituted by some of the formulary list. A revision of the present list will be made as soon as the new list of physicians is chosen.

## AMBULANCES.

The total number of calls for the year was 1182. Of these 712 were to remove sick people, 393 were for accidents and in 77 cases the ambulance was not used.

The number of calls show an increase of 62 over the previous year and the accident calls show an increase of 92 cases. During the year the services of another driver was added, making it so that there are two men on duty all of the time, night and day. The cost of the ambulance service was \$5221.12, of which \$3539.99 was for salaries and the balance for care of horses and ambulances.

## THE INSANE.

The total number of insane patients on the city during the year was 149, of which 105 remain in State hospitals January 1, 1903. Forty-six notices on insane patients were received, of which 33 were settled in this city, and 13 claims for settlement were denied. Twenty-eight patients were removed from insane hospitals during the year, of which number twelve have been discharged and the others are at the Almshouse. The total expense for 1902 was \$19,381.74, of which amount \$1438.98 was received from relatives. This is the last year we will be burdened with the support of the insane, as the State assumes full control in 1904.

## SICK IN HOSPITALS.

The cost of supporting the sick in local hospitals was \$3190.87, of which \$1992.79 was for support of city cases and the balance for city or town and State cases. The number of city cases in local hospitals during the

year was 127. The improvement in the hospital department of the Almshouse should decrease his number materially and the expenditures for the current year should be considerably less. Seventy-nine Lowell people were helped by various Overseers of the Poor outside of the city. Of this number 33 were in hospitals and the others were assisted in their homes. The total cost for care of Lowell's poor in other places was \$2902.03.

## CHILDREN.

The total number of children for whom the city was responsible for their care, during 1902, was 81, of which 41 were in private families and 40 in asylums. Of this number 32 in private families and 25 in asylums remain January 1, 1903. The total amount paid for care of children was \$4224.52. Besides the above number 42 other children were cared for, either temporarily or permanently. Eight were given to private families for adoption, twenty were placed in institutions to be placed in private families, and the others were given to relatives. The removal of the nursery at the Almshouse from the interior of the institution to the cottage formerly occupied by the chaplain was a move in the right direction. Sickness and crime send a large number of children to the farm each year. They are the innocent victims of the sins of others, and to prevent them from following in the footsteps of their predecessors should be our object. By removing the nursery outside of the institution the children are kept by themselves, and do

not have that daily intercourse with prisoners and paupers they had before. This in itself would justify the removal, as the associations they had previously could not be for their good. Money spent judiciously in the care and training of the children, I always consider is well expended. When they can be started right the pauper business of the future will be greatly on the wane.

The remaining branches of the department can be best understood by an examination of the tables. I desire to call your attention to the yearly increasing cash allowance list. I believe the board should reduce that considerably this year and then none but very needy cases should be aided. The easier it is to get an allowance of cash the more insistent the demands for it become. It is always a dangerous method of assisting and many overseers throughout the State refuse positively to give any. Our allowance list should be thoroughly revised and the pruning knife used wherever possible.

At the risk of being considered presumptuous I would strongly advise harmony in the board this year. The public notoriety that has been so common to us the past few years was even more pronounced last year. The local papers gave "scare head lines" and columns of space to our monthly meetings, which were filled with accounts of senseless wranglings and acrimonious debates. Matters of major importance went by unheeded, while other things, small in their significance, were flayed to pieces. In announcing the time for our December meeting one local paper added that as it was to be the last meeting of the year "fireworks were

expected." All this serves not only to lower the board in the public mind but interferes with the good work of the department. All should remember that the welfare of too many people is at stake and that to properly care for all requires the best and united efforts, entirely devoid of personal or political likes or dislikes. There is no other department in the city to which so many people turn, and from which so much is expected. Representatives of all classes and conditions of people come to us for various things, and how best to serve them and guard the city's interests is no small task. It is within your power to establish in the public mind a reputation consistent with the office you hold.

## RECOMMENDATIONS.

As the managing head of one branch of your department there are several matters I desire to call to your attention and would recommend some action on them by you during the year.

Some measures should be taken to handle more satisfactorily the chronic habitues of the farm. That class of worthless idlers who are constantly running in and out during the year. They spend their time when out in idleness and debauch and use the farm as a place for recuperation. I believe the board should make a rule to the effect that a certain number of admissions to any individual during a specified time, when the admissions are not due to accident or illness, shall be sufficient cause to declare such an individual a vagrant, and that

all such shall be arraigned in the police court as vagrants. It is with this class that the superintendent of the Almshouse has the most trouble. They should be made to understand that the Almshouse is not a convalescing home, and if they steadily refuse to be self-supporting they should be sent as prisoners to the State Farm at Bridgewater.

I would recommend that the various committees of the board give more attention to the matters within their charge. In the past many of them have never met. This should not be so. Every committee has its own work, if it will only lay it out, and the performance of such would be of material benefit to the department. The committee on insurance should make a thorough revision of the policies now in existence. As they stand at present, much confusion would follow a fire in the institutions. We are not getting that protection the amount of premiums paid demands, owing entirely to the manner in which the policies are written. I believe that a readjusted schedule can be made out that will more fully cover our risks, without any further expense in premiums.

I think some arrangements should be made with our local hospitals whereby student nurses can be had by us to care for sickness in the homes of the patients. Very frequently I get mothers of families so ill as to be unable to move them to an hospital and the only help I have at hand is a woman from the farm. Such help, as a rule, is very unreliable. They assume no responsibility and are liable to desert you just when you need them most. The training and experience such cases would give to the student nurses would be of great



value to them and I am of the opinion that such an arrangement can be made. With a corps of visiting nurses the admissions to the hospitals and Almshouse would decrease somewhat.

It would be well for the members to impress upon the minds of the dispensary staff the absolute necessity of their attending to duty. While dereliction in this has not been frequent, still it has occurred too often and always at a great inconvenience to some one or more patients. Calls from this office should be more urgent on the physician than from the outside. Patients with money are not restricted to his services, and if he fails to attend them can get another physician. With our applicants it is different. They have no claim on any other and look to him to care for them. Carelessness in attending to the duties of the office should be sufficient cause for a summary removal at any time.

The time is not far distant when the city will have to make some provision for the care of its consumptive cases. At present there is no asylum for them other than the almshouse. The hospitals will not admit them, and the expense of boarding them out is too great. In a great many cases commitments to the farm are not desirable either to the patient or to the best interests of the institution. At the Detroit convention I was considerably interested in an able paper on "What shall we do with the consumptive poor," read by one of the ablest specialists on that disease in this country, Dr. Knopf of New York. He claims that consumption is not a contagious or inherent disease but is highly communicative. An intelligent handling of the disease would rid this entire country of it in less than fifty years. He claims

that it is a disease which readily yields to treatment, if taken in time, and, in most cases, the patient does not have to leave his own surroundings to be cured. At this time I would suggest that the board give the matter of establishing, either a consumptive ward in our hospital, or the erection of a consumptive hospital their attention, and take action later.

In conclusion I desire to thank the members of the board for their uniform kindness to me, and the employees of the department for their painstaking efforts during the year.





# NUMBER OF PERSONS IN FAMILIES AIDED DURING YEAR OF 1902.

	City Cases		State, City and Town Cases		Total
	Males	Female	Males	Females	
January.....	380	591	145	170	1286
February.....	350	503	126	156	1135
March.....	357	587	106	127	1177
April.....	304	475	77	104	960
May.....	250	344	55	60	709
June.....	264	441	57	67	829
July.....	244	372	50	64	730
August.....	237	397	45	45	724
September.....	263	416	58	71	808
October.....	309	502	89	89	989
November.....	303	470	91	96	960
December.....	458	693	154	154	1472
Total.....	3719	5791	1053	1216	11,779

## NUMBER OF FAMILIES AIDED IN 1902.

	Families	Males	Females
Lowell Cases.....	591	884	1108
City and Town Cases.....	61	85	112
State Cases.....	149	248	282
Total.....	801	1217	1502

NUMBER OF HISTORIES OF NEW CASES  
TAKEN DURING 1902.

January .....	41
February.....	23
March .....	29
April .....	19
May .....	12
June.....	28
July .....	22
August.....	22
September.....	26
October .....	34
November .....	27
December .....	68
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Total .....	351

# AMOUNTS RECEIVED FROM CITIES AND TOWNS

For Aid Rendered in This City.

CITIES		TOWNS	
Beverly.....	\$ 3 00	Attleborough .....	\$ 9 00
Boston ....	45 90	Amesbury .....	40 02
Cambridge .....	27 25	Billerica .....	14 00
Chicopee .....	66 00	Chelmsford .....	57 50
Fall River .....	78 45	Clinton .....	25 40
Fitchburg.....	26 00	Concord .....	30 00
Gloucester .....	21 55	Dracut .....	34 00
Holyoke.....	7 00	Framingham .....	7 00
Lawrence .....	229 20	Maynard .....	65 25
Lynn.....	9 00	Natick .....	32 10
Marlborough .....	50 50	Palmer .....	3 50
Newburyport .....	142 00	Shelburne.....	2 00
Salem ....	195 90	Stoneham.....	104 30
Waltham .....	29 00	Stoughton .....	71 55
Woburn .....	10 00	Tewksbury .....	16 50
		Ware .....	98 29
		Westford .....	111 50
		Winchester .....	32 50
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	\$940 75		\$754 41

Total amount received \$1,695.16.

# AMOUNTS PAID CITIES AND TOWNS

On Account of Lowell's Paupers Residing Therein.

CITIES	TOWNS
Boston ..... \$482 20	Billerica ..... \$ 3 00
Beverly..... 118 82	Chelmsford..... 73 50
Chelsea..... 46 50	Clinton ..... 33 92
Fitchburg..... 19 00	Andover..... 39 50
Fall River ..... 70 75	Avon..... 154 00
Haverhill .... 118 85	Ayer..... 35 00
Holyoke ..... 137 30	Danvers ..... 12 00
Lawrence ..... 225 90	Dracut ..... 28 68
Lynn..... 91 50	Easton ..... 41 86
Malden .... 31 00	Gardner ..... 96 38
Newton ..... 2 45	Hudson ..... 10 95
New Bedford..... 5 00	Saugus ..... 70 08
Newburyport ..... 89 29	Tewksbury..... 99 81
Salem ..... 191 00	Westford ..... 70 50
Springfield ..... 31 20	Provincetown..... 3 15
Somerville ..... 306 68	
Taunton ..... 80 65	
Waltham ..... 20 39	
Worcester..... 61 22	
	<u>\$772 33</u>
<u>\$2,129 70</u>	

Total expended \$2,902.03

# AMOUNT PAID FOR SUPPORT OF LOWELL'S INSANE DURING 1902.

INSTITUTION	Rate Per Week	Total Expended	Number During 1902	Remaining Jan. 1, 1903	Number During 1901	Remaining Jan. 1, 1902
Danvers Insane Hospital .....	\$ 3 25	\$3,963 29	21	17	25	18
Worcester Insane Hospital .....	3 25	6,947 34	54	37	48	26
Worcester Insane Asylum .....	3 25	1,409 40	9	8	9	9
Medfield Insane Asylum .....	2 80	4,407 30	32	29	30	29
State Farm, Bridgewater .....	2 80		9	8	11	7
State Hospital, Tewksbury .....	2 80		4	4	3	3
Westboro Insane Hospital .....	3 25	1,015 83	8	5	8	4
Hospital for Epileptics .....	3 25	502 96	4	4	3	2
Taunton Insane Hospital .....	3 25	118 92	1		3	1
School for Feeble Minded .....	3 25	1,016 70	6	6	6	6
Hospital for Dipsomaniacs .....	3 25		1		2	
Total .....		\$19,381 74	149	118	148	105

Total expense for year 1902 .....	\$19,381 74	Total expense for 1901 .....	\$18,223 69
Less amount received for board .....	1,438 98	Less amount received .....	1,506 50
Total net expense to city .....	\$17,942 76	Total net expense .....	\$16,717 19

AMOUNTS PAID FOR LOWELL'S DEPENDENT CHILDREN,  
OUTSIDE OF ALMSHOUSE.

IN INSTITUTIONS.

Institution	Rate per Week	Amount paid	Number During 1902	Remaining Jan. 1, 1903
St. Peter's Orphan Asylum .....	\$1 25	\$1,156 50	20	17
Lawrence Orphan Asylum .....	1 50	675 59	13	4
Salem Orphan Asylum .....	1 50	273 00	4	3
Children's Hospital, Boston .....	7 00	40 75	2	
Perkins Institute for Blind.....		64 88	1	1
Total .....		\$2,210 72	40	25

AMOUNTS PAID FOR LOWELL'S DEPENDENT CHILDREN,  
OUTSIDE OF ALMSHOUSE.

IN PRIVATE FAMILIES.

	Rate per Week	Amount Paid	Number During 1902	Remaining Jan. 1, 1903
Mrs. Denault, Lowell.....	\$1 75	\$ 83 50	1	1
Mrs. Kittredge, Billerica.....	1 50	312 83	4	4
Mrs. Mansfield, Pelham.....	1 75	108 75	5	
Mrs. Burt, Tewksbury.....	1 75	166 50	2	2
Miss Webster, Lowell.....	2 00	201 41	3	
Delia Jones.....	2 00	104 30	1	1
Emily O'Neil.....	1 50	156 47	2	2
Mrs. Allen.....	2 00	312 90	3	3
Margaret Welch.....	1 50	26 14	1	1
	per month			
James McArdle.....	7 00	84 00	5	5
Rose Kiernan.....	10 00	120 00	2	2
Charles McDermott.....	8 00	24 00	1	
Patrick Murphy.....	8 00	96 00	2	2
Ellen Tully.....	7 00	84 00	3	3
Jennie Abam.....	7 00	63 00	3	3
Robert Montgomery.....	10 00	70 00	3	3
Total.....		\$2,013 80	41	32
Total for year 1902.....		\$4,224 52	81	57

# COST OF SUPPORTING LOWELL'S SICK POOR IN LOCAL HOSPITALS FOR YEAR 1902.

	ST. JOHN'S HOSPITAL		LOWELL HOSPITAL		LOWELL GENERAL HOSPITAL		Total
	City Cases	State, City and Town	City Cases	State, City and Town	City Cases	State, City and Town	
January.....	\$112 50	\$ 98 85	.....	.....	.....	.....	\$211 35
February.....	195 50	36 70	\$ 17 50	.....	.....	.....	249 70
March.....	227 50	41 43	.....	.....	.....	.....	268 93
April.....	186 50	92 15	14 29	.....	39 50	.....	332 44
May.....	164 50	94 99	.....	.....	.....	.....	259 49
June.....	131 00	66 41	.....	.....	.....	.....	197 41
July.....	214 00	176 70	.....	.....	.....	.....	390 70
August.....	160 00	60 29	.....	.....	.....	.....	220 29
September.....	184 00	115 84	.....	.....	28 50	.....	328 34
October.....	134 25	155 96	25 00	.....	.....	.....	315 21
November.....	83 00	125 06	7 50	8 57	.....	.....	224 13
December.....	67 75	101 84	.....	4 29	.....	19 00	192 88
Total .....	\$1860 50	\$1166 22	\$64 29	\$12 86	\$68 00	\$19 00	\$3,190 87



# RECEIPTS OF DEPARTMENT OF OUT DOOR RELIEF FOR 1902.

	Credited to General Treasury Fund	Credited to Appropriation	Total
January .....	\$ 373 89	.....	\$ 373 89
February .....	283 53	\$ 5 55	289 08
March.....	490 97	3 95	494 93
April .....	228 12	3 10	231 20
May .....	1,848 14	8 35	1,856 49
June .....	86 15	5 85	92 00
July.....	748 95	58 00	806 95
August .....	417 67	14 70	432 37
September.....	252 37	15 05	267 42
October .....	197 27	2 90	200 17
November .....	305 44	50 45	355 89
December .....	548 64	47 63	596 27
Total .....	\$5,781 14	\$215 53	\$5,996 66

# MONTHLY CASH OUTPUT, INCLUDING PAY ROLLS, JAN. 1, 1902, TO JAN. 1, 1903.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Secretary's Office .....	\$ 322 50	\$ 391 14	\$ 480 45	\$ 345 07	\$ 387 42	\$ 368 65	\$ 354 54	\$ 390 70	\$ 375 24	\$ 374 11	\$ 390 55	\$ 365 57	\$ 4,546 00
Ambulances . . . . .	450 15	335 17	434 01	420 66	548 04	453 58	428 10	510 65	403 03	351 79	511 22	374 72	5,221 12
Dispensary .....	72 72	135 25	153 47	232 31	100 00	156 27	143 32	170 93	125 62	125 12	183 77	215 53	1,814 31
Coffins and Interments	7 00	59 00	77 50	3 00	97 50	58 50	105 50	39 00	72 00	42 50	28 00	87 00	676 50
Physicians .....	136 31	143 62	167 98	88 32	70 00	169 66	131 97	102 31	123 65	123 97	129 30	125 31	1,512 40
Cities and Towns .....	690 94	244 75	104 65	76 24	37 30	279 70	352 59	424 37	19 00	130 56	87 77	454 16	2,902 03
Hospitals and Insti'tns.	1,160 33	407 98	3,754 27	696 15	425 93	6,115 43	571 12	421 94	5,488 79	438 15	404 21	4,031 62	24,815 92
Cash Allowances .....	427 92	384 00	398 17	367 42	381 17	386 42	390 06	404 31	378 14	389 74	378 14	375 74	4,655 23
Orders on Stores .....	148 50	143 50	124 50	146 65	127 50	225 48	137 50	161 50	162 00	153 53	121 50	188 25	1,840 41
Orders from Almshouse	1,459 00	1,337 00	1,278 50	930 00	805 00	790 00	752 00	779 00	759 00	946 90	868 00	1,418 00	12,121 50
Sundries ....	16 30	.....	10 63	19 00	.....	48 95	18 90	53 40	58 60	28 90	8 60	4 30	267 58
Total .....	\$4,891 73	\$3,581 41	\$6,984 13	\$3,324 82	\$2,979 86	\$9,046 64	\$3,385 60	\$3,458 11	\$7,965 07	\$3,104 37	\$3,111 06	\$8,540 20	\$60,373 00

TOTALS OF OUT DOOR AID FROM JANUARY 1, 1902, TO JANUARY 1, 1903.

	LOWELL CASES				STATE, CITY AND TOWN CASES.				Total
	Wood	Coal	Provisions	Orders	Wood	Coal	Provisions	Orders	
January . . . . .	\$184 36	\$351 16	\$687 40	\$143 53	\$40 14	\$80 34	\$160 60	\$ 8 50	\$1,656 03
February . . . . .	162 12	313 69	631 34	123 00	38 88	79 31	153 66	17 50	1,519 50
March . . . . .	206 50	240 08	637 99	126 90	37 00	46 92	119 01	20 50	1,434 90
April . . . . .	273 95	.....	530 89	136 25	46 05	.....	92 11	20 50	1,099 75
May . . . . .	239 81	.....	471 71	136 00	32 19	.....	64 29	14 50	958 50
June . . . . .	236 36	.....	465 70	126 93	28 64	.....	59 30	18 50	935 43
July . . . . .	225 90	.....	440 77	135 50	29 10	.....	58 23	12 00	901 50
August . . . . .	237 71	.....	478 41	144 00	25 29	.....	50 59	20 50	956 50
September . . . . .	229 30	.....	443 58	120 00	26 70	.....	53 42	14 50	887 50
October . . . . .	280 56	.....	532 09	128 50	44 44	.....	88 91	19 50	1,094 00
November . . . . .	261 28	.....	489 55	111 00	39 72	.....	77 45	19 50	998 50
December . . . . .	437 67	.....	766 32	135 75	81 33	.....	140 68	31 50	1,593 25
Totals . . . . .	\$2,975 52	\$904 93	\$6,575 75	\$1,567 36	\$469 48	\$206 57	\$1,118 25	\$217 50	\$14,035 36

# FINANCIAL STATEMENT OF THE PAUPER DEPARTMENT FOR YEAR 1902.

## OUT DOOR RELIEF.

### CREDITS.

Appropriation . . . . .	\$52,000 00
Additional appropriation . . . . .	8,292 11
Receipts credited to Department . . . . .	215 53
Total Credits . . . . .	\$ 60,507 64

### DEBITS.

Total expenditures . . . . .	\$60,373 00
Transferred to General Treasury Fund . . . . .	134 64
Total Debits . . . . .	\$60,507 64

## ALMSHOUSE.

### CREDITS.

Appropriation . . . . .	\$49,500 00
Additional Appropriation . . . . .	6,690 62
Receipts credited to Department . . . . .	13,222 20
Total Credits . . . . .	\$69,412 82

### DEBITS.

Total expenditures . . . . .	\$66,260 78
Transferred to General Treasury Fund . . . . .	3,152 04
Total Debits . . . . .	\$69,412 85

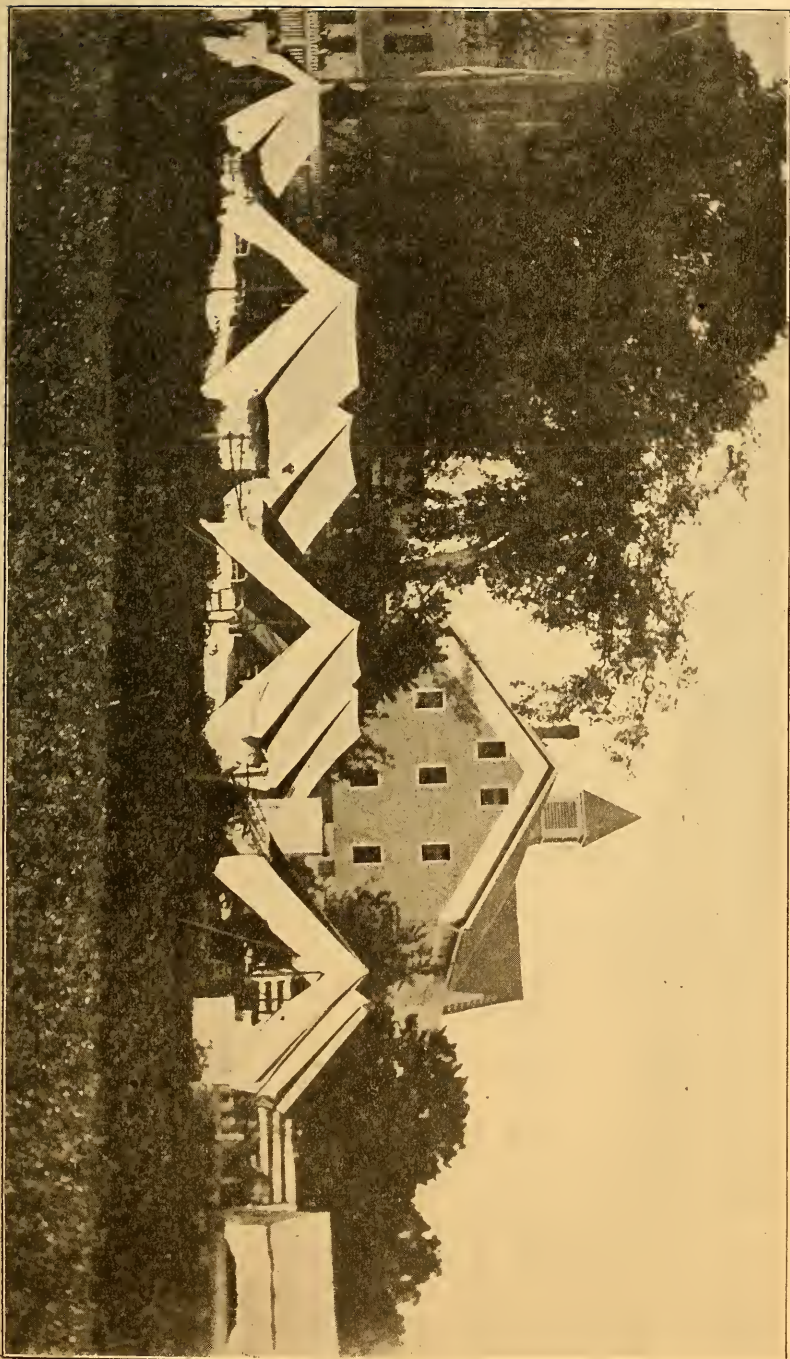
# TOTAL EXPENSE OF DEPARTMENT.

Out Door Relief.....	\$60,373 00	
Almshouse .....	66,260 78	
	<hr/>	
Total .....	\$126,633 78	
Less amount paid Almshouse by Out Door Relief .....	12,121 50	
	<hr/>	
	\$114,512 28	
Less Receipts Credited to Department ..	1,316 23	
	<hr/>	
	\$113,196 05	
Less Receipts Credited to General Treas- ury Fund.....	6,700 55	
	<hr/>	
	\$106,495 50	
Total expense of Entire Pauper Depart- ment for the year 1902 .....		\$106,495 50

Respectfully submitted,

MARTIN J. COURTNEY,

*Secretary.*



FIELD HOSPITAL.



ANNUAL REPORT

OF THE

# Lowell City Hospital and Almshouse

FOR THE YEAR ENDING DEC. 31

1902





# Superintendent's Report.

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LOWELL, MASS., Jan. 1, 1903.

*To the Overseers of the Poor:*

GENTLEMEN :—I have the honor to present to you the following report of the almshouse, hospital and workhouse for the year ending Dec. 31, 1902.

The above three divisions comprise the so-called "City Farm" and includes the asylum for the insane.

Unfortunately I have been subjected to such determined obstruction and untiring opposition throughout the year, that only a part of what was mapped out at the beginning has been accomplished, either in the line of gross repairs or of systematizing the workings of the institution, for no man can do his whole work in the face of such venomous antagonism from one person or coterie.

Had I seen fit to retain inefficient and untrustworthy employees I could have saved myself much open annoyance throughout the year.

Discipline can never be maintained among officers or inmates, while either is imbued with the idea that the head of the institution is being subjected to the unprincipled animosity of a prejudiced superior, whose desire for their welfare is only evidenced when there is an opportunity for gaining newspaper notoriety in the hope of furthering his political ambitions.

To elevate this institution to the plane on which it should stand, to a par with institutions of its kind elsewhere would be an immense task even with the support of your full board, for I found at the beginning of this year only a nominal institution, bearing the ear marks of a nondescript boarding house on which no trained idea had ever been bestowed, showing no forethought, no arrangement, no knowledge of hygiene or sanitation.

An almshouse patterned after this might be in keeping with a small town, but it is impossible that a city of the size and importance of ours should have to blush for a place of such character.

When the appropriation estimate was made out, I included among others an item of \$10,000 for repairs. This was denied although the committee itself admitted the dire necessity.

When I asked the chairman of the appropriation committee how the committee had acted on the individual items in order to get its total, no information was vouchsafed me other than that the item for repairs was not allowed. At the same time that this information was denied me a former member of your board was able to say that he "understood" that no money had been allowed for this or that thing, things that were neces-

sities, and when I asked how or where he got his information, could get no reply except that he did not believe in "one-horse power." This is simply one and by no means the worst example of the despicable political manouvering by which this institution has been buffeted about until it is a disgrace to every one heretofore connected with it.

I, personally, believe in one man power, but I decline to take blame for the shortsightedness or misdeeds of others, whose only object is their own aggrandizement.

Everything, that was designed for the welfare of the institution, was strenuously objected to, and I need only recall to your mind one instance to prove this—that of the field hospital, composed of regulation army hospital tents, in which the men were sheltered during the summer, while the vermin infested building in which they had previously been corraled, was made habitable.

However, to its credit, your board took the matter of repairs in its own hands, despite some internal objection, and during the year the male hospital was disinfected with formaldehyde and sulphur, the walls scraped, skimmed with plaster of paris, and finished with a coating of sanitary gloss, thus making the walls impervious to minute animal life. The ceilings which heretofore consisted of the bare rafters, were finished with pressed steel and the floors polished.

A trained nurse now has charge of the building, for even the appropriation committee admitted the justice of this demand.

The ventilation has been put in as good condition as the present system will admit, while the beds were burned with naphtha and painted, and the mattresses renovated. Those mattresses, which were made of palm fibre, were destroyed.

In the smoking room devoted to the use of the male inmates, other than hospital patients, the sanitariums were renewed and the old wooded platform replaced by a slate slab, at the suggestion of the state inspector of public buildings.

In the administration building a new dispensary was fitted up, in the corridor adjoining the office, and in conjunction with it, a private consultation office was arranged for the visiting physician, while on the other side it is flanked by the receiving office.

In the men's insane the plumbing was repaired where defective, and a new steam coil put in, where the old pipes were eroded so badly that it suggested a sprinkler.

The women's hospital was put through the same process as the men's, and at the present time work in the female pauper wards is under way. Iron clad doors have been put in the arches between the sane and insane wards where formerly, vision was cut off by a piece of cloth, ingress and egress by a gate, and sound not at all.

The nursery which was formerly in a corner of the old reform school building, with a bleak northeast exposure, has been transferred to the cottage outside the institution fence.

The inside of the cottage was renovated, a steam plant put in and a small sun room added to the south side. I believe that transferring the children outside the actual confines of the almshouse was a humane act, for with the memory of their former surroundings, they must of a necessity be weighted through life with the vision and stigma of a poorhouse, only to make their return here later a matter of comparative unconcern to them.

The new roof on the boiler house, with the clothes dryers, comprising an area of about 3500 square feet, which was begun last year, was completed and had to be paid out of this year's appropriation.

The boilers were relined and the grates replaced, together with innumerable minor repairs elsewhere, which were absolute necessities and which in the aggregate cost considerable money, and it is in these minor matters that the injustice of the position of the appropriation committee is apparent, for while they decline to allow me money to actually keep such a requisite as the heating plant from collapsing, yet the buildings department of the city disclaimed the responsibility and refused to include it in its estimate.

The conditions are intolerable, but they are not due to any one man, but to petty and mischievous conditions engendered by a pernicious political system.

You cannot expect to raise this institution to the standard of others in a year or two years, but by expending a comparatively small sum each year the decay can be stopped, and after a few years it will have risen unconsciously to a position where it can be held up as a criterion.

It is one large hospital and should be considered as such, but if you are going to take this enlightened view of it, place its welfare before that of your farm and cattle, and not secondary, or tertiary, even.

Among the early requisites I would ask for the instalment of electric lights. Gas is both antiquated and dangerous, especially where the insane are confined. An unfortunate accident occurred in this institution within recent years and there can be no excuse for its repetition.

The plumbing, while old and repulsive, can be held together with isolated renewals and where anything extensive is contemplated or possible in this connection, it should consist in a total displacement of the present system.

The laundry floor is dangerous and has been called to the attention of succeeding boards for years past.

The women's building is crowded to the eaves, with no place for an overflow, and as this building is devoid of sitting or dining rooms those feeble old women, who are unable to climb up and down stairs, are compelled to sleep, eat and spend all day in the same room with never a variation from year end to year end.

There are two solutions for this—first to build a frame structure in the angle of the buildings, with glass exterior, which in the summer could be lowered or raised, thus making a sort of piazza for these old and infirm, from which they can get an opportunity to see the world, other than through the bars of a third story window. Better than this would it be, to erect a new building, to be used solely as a hospital, thus relieving the congestion in the present building.



I can appreciate that this may seem impossible, for monetary reasons, but to cover this expense, and to make the rest of the institution habitable, I advocate and urge that you sell that piece of land on Chelmsford Street, near Plain Street. It has an area of less than five acres, only half of which can be ploughed, and in any case is situated at so great a distance, nearly half a mile from the buildings, that it is a matter of chance whether the crop thereon will remain long enough to be harvested. It is too valuable for planting and is so near the heart of the city that I believe it would command an amount sufficient to renew the institution, and at the same time relieve the city of what is now but little better than an incubus.

I very strongly urge this, and would ask for early action on your part. Paint is needed everywhere, and bars and screens are required on the male hospital, the former to protect the life of patients mentally unbalanced or delirious, and the latter to protect them from flies in summer.

The barns are within fifty feet of this hospital and should be moved to a greater distance. There is ample territory and the expense would not be great.

Fire hose is needed in some places. We have patent extinguishers and fire pails, but as the means of egress from our buildings is so limited, the only way to prevent loss of life is to have every expedient for the purpose of extinguishing a possible incipient fire.

Among the items which I presented to the appropriation committee and which have not yet materialized, I would name—hoods over entrances to male hospital,



grated doors in all rooms used for the insane, sanitary provision for housing tramps or their exclusion from the almshouse, refitting the laundry cellar and new floors in parts of women's hospital building. Plans were once drawn for a system of shower baths, but the project ended there.

Your nurses should be provided with better quarters than they have at present, scattered as they are throughout the various buildings.

On the question of labor the greatest need is in the women's insane. In this department there is no sitting room, where they can be corraled during the day, and as a result, we have them divided into three divisions on three separate floors, with one attendant to about thirty insane or demented inmates. To be sure, she has assistants in the form of other inmates, but the responsibility is lacking in an inmate, however sane, and sooner or later, when some deplorable accident occurs, he, who opposes a sufficient number of responsible attendants, will be the first to charge you with neglect of duty.

Again, before the appropriation committee, I asked for a sufficient labor appropriation to allow for an inspector of incoming and outgoing goods, and of course was denied. I must repeat that inmates of an institution of this kind, however worthy they may be, should not be entrusted with the handling of the large amount of goods coming into and leaving this storehouse. I shall certainly advocate this improvement again, unless the out door relief and wood yard are moved down town, but it is for the interests of the department as a whole, that they be moved nearer the center of the territory which they have to cover.

The workhouse is unfortunately so closely identified with the almshouse that what applies to one applies to the other.

There is absolutely no separation, and no means of separation, with the result that a certain class, probably originally sentenced as prisoners, return as paupers and spend the rest of their lives alternating between one and the other. These huskies, whose lives are devoted to avoiding anything that savors of labor, are the element who bring odium on the almshouse, 90 per cent. of whose inmates must be considered worthy at the time they come here, since we cannot delve into the particular misfortune that brought each separate individual to this end.

A workshop is needed if you are going to retain the workhouse. At the present time sawing wood is hardest work we have to offer in winter, and it is in winter that the population is at its flow.

There is one set of chronic paupers who, when refused admission by the secretary, have been given lines to secure it by members of your board, probably inadvertantly.

For the benefit of these I am establishing a blacklist, and once on that blacklist they will be refused admission, whoever requests it, unless sentenced to the workhouse.

Last year I asked for a small sum for the purchase of instruments, to form the nucleus for an operating room. That request I have repeated this year. In addition it is my intention to start a laboratory.

Do not consider what I say to mean a sudden and radical reformation, but rather as a prelude to the day when you will have a corps of house physicians, who will have the time and equipment to thoroughly investigate each case admitted, and thus exclude, to some extent at least, the imposters and heelers who have used the institution as a sort of winter club, and have avoided work with a pertinacity which, if properly guided, would make their residence here unnecessary ; also to give to those chronic sufferers, who are barred from every other institution, the opportunities and care that is their due.

Dr. Jones, the visiting physician, has had to devote hours each day to this work, and has accomplished tremendous results in the face of the most discouraging circumstances, but it is too much for any one man, even if he slaved the whole of every day.

In conclusion I can only add that I am very grateful for the kindness and support that I have never failed to receive when needed.

Respectfully,

CHARLES E. DONLAN, M. D.,

*Superintendent.*

### GROSS AND NET EXPENSE.

Labor .....	\$ 11,096 66
Salaries .....	2628 96
Sundries .....	53,464 12
	<hr/>
Gross expense .....	\$ 66,189 74

### RECEIPTS.

Orders to Out Door Pauper Dept :	
Provision orders .....	\$ 7638 00
Wood orders .....	4488 00
Orders to Health Department. :	
Supplies to contagious hospital ...	526 34
Orders to School Department :	
Wood to school houses .....	569 86
Income credit to appropriation..	\$ 13,222 20
	<hr/>
Net .....	\$ 52,967 54

## COST OF WHOLE INSTITUTION FOR YEAR 1902.

Expended	Total Income	Actual Cost	Average Cost	
			Per Year	Per Week
\$66,260 12	\$14,141 61	\$52,118 51	\$118 99	\$2 29

## POPULATION OF ALMSHOUSE.

	Males	Females	Totals		M	F	Totals
Remaining Jan. 1, 1903 ..	177	349	426	Discharged...	340	251	591
Admitted during year...	390	288	678	Died. ....	53	51	104
Births.....	5	4	9	Remaining Jan. 1, 1903.	179	239	418
	572	541	1113		572	541	1113

## POPULATION OF WORKHOUSE.

	Males	Females	Totals		M	F	Totals
Remaining Jan. 1, 1902 ..	9	27	36	Discharged during year	85	89	174
Admitted during year...	113	103	316	Remaining Jan. 1, 1903	37	41	78
Totals.....	122	130	252		122	130	252

# AGES OF THOSE ADMITTED DURING YEAR.

	Under 30		20—30		30—40		40—50		50—60		60—70		70—80		Over 80		
	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Total
January .....	1	3	2	5	13	7	13	4	6	2	4	4	1	1	1	1	66
February .....	2	3	1	2	5	2	10	5	4	3	5	3	1	1	1	1	47
March .....	2	3	3	2	7	3	5	1	4	2	4	3	1	1	1	1	34
April .....	5	2	3	4	7	3	6	6	4	4	8	4	3	2	1	1	46
May .....	7	3		3	4	4	2	6	7	1	7	6	8	1	1	1	51
June .....	10	6	4	2	5	4	9	7	5	2	5	5	5	1	1	1	58
July .....	8	2	3	2	2	1	7	4	5	3	3	3	1	1	1	1	50
August .....	4	4	2	5	10	8	6	4	5	1	3	3	1	1	1	1	55
September .....	6	3	3	2	5	4	4	3	5	3	6	6	1	1	1	1	51
October .....	12	6	6	2	8	9	9	4	6	6	6	12	2	2	2	2	83
November .....	7	6	4	2	5	5	6	4	6	7	5	3	1	1	1	1	71
December .....	5	2	4	3	9	7	10	7	9	7	5	3	1	1	2	2	75
	69	42	35	33	74	57	87	51	69	44	42	54	11	14	4	1	687

# DAILY NUMBER OF INMATES.

DATE	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	462	501	497	435	415	402	395	395	411	432	440	458
2.....	463	502	495	432	410	398	391	392	411	430	440	458
3.....	467	499	494	430	410	397	393	390	408	431	442	453
4.....	469	500	490	428	407	392	391	392	416	428	442	454
5.....	477	498	480	431	407	394	390	383	419	428	444	466
6.....	481	501	478	426	402	395	393	391	421	434	445	469
7.....	480	502	478	427	407	401	393	398	415	437	446	467
8.....	484	503	479	427	407	392	390	398	416	443	448	468
9.....	485	504	478	430	406	392	393	399	416	443	444	469
10.....	485	504	476	432	402	394	390	402	417	445	446	468
11.....	485	504	474	435	402	395	392	403	421	450	445	471
12.....	492	502	474	432	402	392	390	401	425	450	444	469
13.....	491	503	475	438	401	396	395	397	421	453	444	473
14.....	487	503	474	435	403	396	394	397	420	447	454	473
15.....	490	500	471	435	404	399	390	394	420	443	452	477
16.....	495	499	468	430	406	400	391	395	418	447	452	473
17.....	492	499	467	428	409	399	396	394	416	446	450	476
18.....	490	502	467	423	409	398	398	395	416	454	451	476
19.....	490	503	458	424	409	397	395	402	417	449	453	481
20.....	494	507	461	425	407	399	396	403	419	446	453	485
21.....	497	501	463	425	407	398	393	404	420	449	455	488
22.....	498	502	463	425	406	394	393	405	421	452	452	486
23.....	499	500	462	425	404	394	391	408	420	453	453	487
24.....	496	500	462	426	397	395	395	412	420	456	454	487
25.....	496	494	453	426	396	397	395	411	423	456	457	489
26.....	495	495	452	424	399	398	398	413	425	456	456	490
27.....	498	495	442	424	398	402	395	413	426	456	456	486
28.....	500	496	438	426	401	400	390	411	426	457	459	488
29.....	499	.....	439	414	403	402	391	413	435	456	461	487
30.....	499	.....	437	412	403	402	395	414	430	457	460	490
31.....	502	.....	438	....	403	....	394	411	....	458	....	491
Average for Month	488	500	467	427	404	397	393	401	419	446	449	475
Maximum.....	502	507	497	438	415	402	398	414	430	458	461	491
Minimum.....	462	494	437	412	396	392	390	388	388	428	440	453

Maximum for year 507.  
Minimum for year 388.  
Average for year 438.

# FARM PRODUCE, 1903.

Apples . . . . .	105 bbls.	Onions . . . . .	449 bush.
Beef (dressed) . . . . .	1620 lbs.	Parsnips . . . . .	146 bush.
Beets . . . . .	129 bush.	Peaches . . . . .	1½ bush.
Cabbage . . . . .	4000 heads	Potatoes . . . . .	1610 bush
Carrots . . . . .	86 bush.	Pears . . . . .	21 bush.
Celery . . . . .	960 bunches	Pork (dressed) . . . . .	9228 lbs.
Corn, sweet . . . . .	480 bush.	Peas, green . . . . .	45 bush.
Ensilage . . . . .	25 tons	Poultry (dressed) . . . . .	220 lbs.
Eggs . . . . .	8294	Radishes . . . . .	1280 bunches
Grapes . . . . .	10 bush.	String beans . . . . .	58 bush.
Hay, English . . . . .	70.52 tons	Squash . . . . .	4120 lbs.
Hay, Meadow . . . . .	16.84 tons	Tomatoes . . . . .	530 bush.
Lettuce . . . . .	14,126 heads	Turnips . . . . .	180 bush.
Milk . . . . .	39,152 qts.		



# PREVIOUS OCCUPATIONS OF INMATES ADMITTED.

Laborers . . . . .	227	Paper-hangers . . . . .	1
Barbers . . . . .	7	Steam-fitters . . . . .	5
Tinsmiths . . . . .	2	Slaters . . . . .	2
Cooks . . . . .	7	Seamstress . . . . .	4
Housekeepers . . . . .	94	Machinists . . . . .	4
Carpenters . . . . .	9	Tailors . . . . .	1
Operatives . . . . .	155	Nurse . . . . .	1
Plasterers . . . . .	3	Teamsters . . . . .	6
Farmers . . . . .	2	Harness-maker . . . . .	1
Painters . . . . .	6	Janitor . . . . .	1
Gardeners . . . . .	1	Confectioner . . . . .	1
Clerks . . . . .	10	Printer . . . . .	1
Belt makers . . . . .	1	Physician . . . . .	1
Bakers . . . . .	1	Actor . . . . .	1
Moulders . . . . .	4		









ANNUAL REPORT  
OF THE  
Births, Marriages and Deaths,  
IN THE  
City of Lowell,  
FOR THE YEAR 1902.



LOWELL, MASS.:  
THE LIBBY PRINTING COMPANY  
1903.

CITY OF LOWELL.

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IN BOARD OF ALDERMEN,  
April 28, 1903.

Received, read, ordered on file; sent down for concurrence.

GIRARD P. DADMAN, City Clerk.

IN COMMON COUNCIL,  
April 28, 1903.

Received, read and ordered on file in concurrence.

FRANK M. DOWLING, Clerk.

# City of Lowell,

CITY CLERK'S OFFICE, }  
April 28, 1903. }

TO THE HONORABLE CITY COUNCIL:

GENTLEMEN:—I have the honor to present you herein the annual report of the Births, Marriages and Deaths for the year 1902, as of record in this office, to wit:

## BIRTHS.

	WARD—One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ward not given	Total
Whole Number.....	160	264	239	287	289	288	595	172	197	5	2496
Males.....	84	141	126	159	165	137	298	83	87	2	1282
Females.....	76	123	113	128	124	151	297	89	110	3	1214
American Parents....	35	20	57	55	50	47	64	64	59	2	453
Foreign Parents.....	92	189	124	182	184	165	444	48	91	2	1521
American Father,											
Foreign Mother....	19	27	32	23	29	30	45	26	23		254
Foreign Father,											
American Mother..	11	27	26	27	25	43	42	29	24	1	255
Parents' Nationality											
Unknown.....	3	1			1	3		5			13
Twins.....	2	5	1	3	7	4	5	1	6		34

Still Births not included in above, 135.

Decrease from 1901, 274.



## MARRIAGES.

The number of intentions of marriage issued in 1902 was 1070, 26 more than 1901.

The number of marriages recorded was 1075, being 53 more than in 1901.

The number of marriages solemnized in Lowell was 997; solemnized elsewhere, 78.

## NO. OF MARRIAGES IN EACH MONTH OF 1902.

January.....	82	May.....	65	September.....	118
February.....	75	June.....	158	October.....	120
March.....	46	July.....	69	November.....	99
April.....	91	August.....	83	December.....	69

## NATIONALITY OF CONTRACTING PARTIES.

	GROOMS.	BRIDES.
United States.....	465	477
Canada.....	225	206
Ireland.....	122	136
England.....	75	76
British Provinces.....	44	53
Scotland.....	14	12
Austria.....	34	33
Norway and Sweeden.....	10	9
Portugal and Western Islands.....	24	26
Greece.....	23	20
Russia and Poland.....	15	15
Other Countries.....	23	13
Oldest couple married.....	70	71
Youngest couple married.....	19	14
Oldest person, 71. Youngest person, 14.		
Grooms under 21 years, 39. Brides under 18 years, 29.		

## DEATHS.

The total number of deaths returned and recorded in the City Clerk's Office for the year 1902 was 1980; of these 36 were residents of Lowell who died in other cities and towns within the State, making the number of deaths returned and recorded as having occurred in Lowell, exclusive of still births, 1944.

Decrease from 1901.....	98
Males.....	968
Females.....	976
Persons between 80 and 90 years of age.....	60
Persons over 90 years of age.....	17
Still births (not included in total).....	135

Statistics in greater detail relating to deaths may be found in the Annual Report of the Board of Health.

Respectfully submitted,

GIRARD P. DADMAN,

*City Clerk.*



TWENTY-FIFTH

ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

CITY OF LOWELL

FOR THE YEAR 1902.



LOWELL, MASS.

COURIER-CITIZEN COMPANY, PRINTERS.

1903.



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# ORGANIZATION 1902.

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## BOARD OF HEALTH.

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GUY HOLBROOK, M. D., *Chairman.*

JOHN H. MCGUINNESS, *Secretary.*

JOHN JOSEPH O'CONNOR, to Dec. 16, 1902.

WILLIAM B. JACKSON, M. D., from Dec. 16, 1902.

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## HEALTH DEPARTMENT OFFICERS.

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H. H. KNAPP, *Agent.*

THOMAS B. SMITH, M. D., *Bacteriologist.*

WILLIAM A. JOHNSON, M. D., *Physician.*

STEPHEN GARRITY, *Plumbing Inspector.*

FRED A. BATES, *Inspector Contagious Diseases.*

WILLIAM H. CONNORS, *General Inspector.*

FRANCIS J. O'HARE, *General Inspector.*

ELIZABETH M. RAFTER, *Registrar.*



## CITY OF LOWELL.

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IN BOARD OF ALDERMEN, Feb. 24, 1903.

Received and ordered on file; sent down for concurrence.

GIRARD P. DADMAN, *City Clerk*.

---

IN COMMON COUNCIL, Feb. 17, 1903.

Received and ordered on file, in concurrence.

FRANK M. DOWLING, *Clerk*.

# REPORT.

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LOWELL, MASS., January, 1903.

*To the Honorable Mayor and City Council of the City  
of Lowell.*

The Board of Health respectfully submits its twenty-fifth annual report, covering the operations of the Health Department for the past year, together with a statement of the receipts and expenditures to December 31, 1902.

The unexpired term, caused by the resignation of George W. Fifield, filled by the appointment and confirmation of John Joseph O'Connor, expired the first Monday of February, 1902, and through the refusal of the Aldermen to confirm his re-appointment, he has acted as a hold-over member without objection or contest until December 16th, when the nomination of William B. Jackson, M. D., was presented by Acting Mayor Badger and confirmed by the aldermen. Not accepting the act as legal, Mr. O'Connor appeared at the first meeting of the Board of Health and served notice of contest, and through the remainder of the year attended all meetings of the Board.

The Civil Service Commission having decided that the position of foreman of the department yard should come within their jurisdiction, they certified for

appointment the name of John F. Murphy, a veteran. Objection being made under the rules of the Civil Service, a hearing was granted by them, and as a result his name was stricken from the eligible list.

May 13th, the Board was certified the following list of names as the result of an examination for the purpose of establishing an eligible list.

Thomas H. Muldoon .....	rank 88.46
Thomas F. Garvey .....	rank 87.87
Con. F. Sullivan.....	rank 74.75

On motion of Mr. O'Connor it was voted to appoint Thomas H. Muldoon as foreman of the yard, as he was the highest on the certified list.

As the result of an appeal from the Superior to the Supreme court, in the case of Jerome F. Manning vs. the Smith Garbage Company of Bridgeport, Conn., the injunction was dissolved, and at a meeting held May 29th it was voted to ask the city solicitor to draft a contract with the said firm, for the construction of a cremator, for the sum of nineteen thousand four hundred dollars (\$19,400). At the close of the year, no response in the form of a contract has been presented to the Board in response to the invitation.

July 1st, D. J. Pendergast was elected a member of the Plumbing Commission, in consequence of the resignation of Stephen Garrity.

September 30th, it was voted to amend Rule 11 of the Rules and Regulations of the Board of Health by adding tuberculosis to the diseases classed as dangerous to the public health, and upon the death, recovery or removal of the case, requiring the fumigation and cleaning of premises, and that notice be given to physicians to report such cases to the office when they were met in their private practice.

LOWELL, MASS., Jan. 1, 1903.

H. H. KNAPP, Agent Board of Health.

*Dear Sir:*—The following is a report of the work done by me for the year ending December 31, 1902.

Number of applicants for permits to do plumbing:

New Buildings .....	204
Old Buildings .....	348
Total.....	552

NUMBER OF VISITS.

New Buildings .....	445
Old Buildings .....	505
Total.....	950

Respectfully,

STEPHEN GARRITY,

*Plumbing Inspector.*

The following is a report of the work done by the Plumbing Commission for the year ending June 30, 1902.

The membership of the board of 1901 was continued until June 30, 1902, when Stephen Garrity declined a re-election, and upon the first day of July, 1902, Dennis J. Pendergast was elected to fill the vacancy.

Number of applicants for examination.....	9
For Master Plumbers' licenses .....	3
For Master Plumbers' licenses, passed .....	3
For Journeyman Plumbers' licenses .....	6
For Journeyman Plumbers' licenses, passed .....	3
For Journeyman Plumbers' licenses, failed .....	3

Master Plumber's license granted to Carroll Bros.  
 Master Plumber's license granted to Daniel B. Donovan.  
 Master Plumber's license granted to Welch Bros.  
 Journeyman Plumber's license granted to J. A. Hickey.  
 Journeyman Plumber's license granted to Walter Tumelty.  
 Journeyman Plumber's license granted to John W. Kelley.

Respectfully,

STEPHEN GARRITY,

*Secretary.*

The following is a report of the work done by the Plumbing Commission from July 1 to December 31, 1902.

Whole number of applicants for examination . . . . .	8
For Master Plumbers' licenses . . . . .	2
For Master Plumber's license, passed . . . . .	1
For Master Plumber's license, failed . . . . .	1
For Journeyman Plumbers' licenses, passed . . . . .	3
For Journeyman Plumbers' licenses, failed . . . . .	3

Master Plumber's license granted to Daniel J. Leary.

Journeyman Plumbers' licenses granted to John Cooney, J. Herbert Shepard and Frank S. Whittet.

DENNIS J. PENDERGAST,

*Secretary.*

#### BOARD OF HEALTH IN ACCOUNT WITH PLUMBING INSPECTION.

Received for renewals and examinations . . . . . \$49 50

CR.

1902.

Feb.	3.	Paid Farrell & Conaton . . . . .	\$ 3 79
May	1.	Paid Stephen Garrity . . . . .	5 00
July	19.	Paid Stephen Garrity . . . . .	20 00
Aug.	9.	Lock for drawer . . . . .	35
Sept.	2.	Paid Farrell & Conaton . . . . .	8 14
Dec.	31.	Cash on hand . . . . .	12 22

49 50

## COMPILATION OF INSPECTORS' RETURNS.

Jan. 1 to Dec. 31, 1902.

Tenements .....	2978
Stores .....	394
Hotels .....	7
Sinks .....	3703
Water closets .....	3370
Basins .....	501
Bath tubs .....	124
Cellars .....	1063
Vaults .....	147
Set tubs .....	50
Urinals .....	113
Barns .....	118
Refrigerators .....	106
Dry wells .....	24
Slop sinks .....	11
Cesspools .....	5
Meat cases .....	7
Bakeries .....	54
Bar drainers .....	29
Ash chutes .....	38
Corned beef tanks .....	10
Hen houses .....	36
Laundries .....	12
Schools .....	3
House drains .....	395
Complaints investigated .....	238

Notices to abate the following nuisances were sent from the office during the year 1902.

Untrapped sinks .....	66
Untrapped bath tubs .....	2
Untrapped bar drainers .....	3
Untrapped set tub .....	1
Untrapped soda waste .....	1
Untrapped ice box .....	1
Clogged sink waste .....	9

Leaky sink collar .....	3
Unsealed sink traps .....	22
No water supply to sink .....	15
Insufficient water supply to sink .....	2
Leaky sink traps .....	12
Imperfectly trapped fixtures .....	13
Loose cover on sink trap .....	3
Broken and leaky sinks .....	7
Overflowing dry wells .....	17
Leaky urinals .....	2
No water supply to water closet .....	38
Insufficient water supply to water closet .....	37
Filthy water closets .....	30
Clogged water closets .....	35
Leaky water closets .....	24
Leaky water closet tank .....	1
Rotten and filthy woodwork around water closet ..	2
Unsealed water closet trap .....	1
No cover to water closet trap .....	6
Loose cover to water closet trap .....	1
Dilapidated woodwork around water closet .....	6
Poorly ventilated water closet apartments .....	2
Filthy tenements .....	4
Filthy cellars .....	5
Filthy hen house .....	1
Filthy barn .....	1
Filthy ash pit .....	1
Water in cellar .....	6
Ashes and rubbish in cellar .....	50
Old mattresses in cellar .....	4
Swill, rubbish and ashes in yard .....	164
Pigeons and hens in dwelling houses .....	5
Rubbish in shed .....	10
Manure in yard .....	3
Leaky supply pipes to water closets .....	15
Burst water pipes .....	8
Clogged and defective drainage .....	40
Open drains .....	16
Clogged cesspools .....	3



No cover to house trap .....	1
Defective joints in sink waste .....	43
Defective joints in soil pipes .....	5
Improper material for sink waste .....	6
Whitewash and plaster ceilings .....	3
Dilapidated vault .....	1
To remove swine .....	5
Legal notices served .....	6
To remove contents of vaults .....	42
Permits given to T. F. Fay to clean vaults .....	157
Permits given to T. F. Fay to clean dry wells .....	46
Permits given to T. F. Fay to clean barn cellars .....	4
Permits given to F. A. Fox to clean vaults .....	83
Permits given to F. A. Fox to clean dry wells .....	8
Permit given to F. A. Fox to clean catch basin .....	1

The above compilation gives some idea of the variety of duties constantly under examination through the routine work of the Sanitary Inspectors or from written or personal complaint at the office of the department.

Society brings with it duties and special obligations that are unknown to the hermit or the dweller in the wilderness, and these duties and obligations grow and multiply in proportion as man's social relations enlarge, being most complex in a city whose houses teem with a crowded population. When the family relation introduces other thoughts than those that belong to the task of self health and comfort, his interest commences in the health and sanitary condition of his neighbor.

His sanitary environment is then a grave and important matter, as it would be a constant danger if his neighbors were careless and indifferent to offensive odors and repulsive mounds of refuse undergoing



process of decay. When the tenement house teems with an overcrowded population who are indifferent to or ignorant of the laws of health, who seem to have lost all ambition and desire for improvement and whose entire surroundings are indicative of the physical degradation of its lodgers, it becomes a source of grave danger and peril to all.

Therefore, the interests of the whole community are involved in the sanitary condition of our neighbor, and we must be his keeper on account of the duty we owe our families, if from no other motive. A mysterious chain binds us all together, and there is no member of a community so unimportant but that his sickness will pervade the whole, should it assume the form of a communicable disease.

Good health is man's possible possession. It is true that the effect of past errors in ancestors may be transmitted through generations, but the average man or woman holds the possibility of not only preserving for themselves the desired boon, but of doing something to prevent disease and mitigate suffering among their neighbors. What is wanted is a thorough appreciation of the obligation of a health department to look after the sanitary needs of the poorer classes, so that health officials may secure the cordial aid of the City Councils through sufficient appropriations to properly conduct the duties required by the Statutes and expected by the citizens.

The necessity of a health department arises from the fact that the power of determining and pronouncing nuisances must be lodged in some body recognized by law and invested with sufficient authority to enforce its conclusions.

Our sanitary inspection is carried on systematically and includes examination of conditions of cleanliness, plumbing, drainage, water supply, garbage disposal and causes of illness; and to make it fulfill its highest possibilities, it should be sustained by an enlightened public opinion, non-partisan health officers and ample appropriations.

Of course there are landlords averse to an inspection that exposes long-neglected nuisances and they are slow to obey the order for their summary abatement, but there are others who are frankly grateful for the improvement of their property. Rooms are found that have not been whitewashed for years, and others where green mold is gathering on bedroom walls. Imagine a cellar where, to reach the coal bin, you must wade through water; reflect on the wholesomeness of bread mixed in the room where are the toilet accommodations; consider the odors that must arise where garbage is thrown out of the windows, or lies rotting in the cellar; where the slops are allowed to flow into the street, or worse nuisances are committed in the darkened hallways, and the reader will comprehend the multiplicity of offenses that it is the continual work of the department to ferret out and reduce to the minimum. Prevention costs less than cure, and any work that tends to arrest the progress of disease should have the good will of those who temporarily hold the purse strings of the municipality.

The proposition that inspection for the purpose of maintaining cleanliness has a very remote bearing upon the morbidity of a community has been advanced recently by some very distinguished students of hygienic problems. It is undoubtedly the fact that, under the bacteriological tests that have been made

during recent years, the theory that filth is a disease causation has undergone a radical change, and at present only typhoid fever is believed to extend its ravages by unclean and filthy surroundings.

Still, the work that improves the homes of the poor, and protects them from the miserly grasp of the exacting landlord, is of great importance to them, even if it would be difficult to prove that such inspection had any influence towards decreasing the death rate.

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OFFICE INSPECTOR OF ANIMALS.

LOWELL, MASS., December 30, 1902.

TO THE BOARD OF HEALTH,

Lowell, Mass.:

*Gentlemen:*—As per custom of previous years, I herewith hand you my annual report for the year 1902.

Since January 1st I have personally examined two hundred and eighty-five cows, sixteen calves, two bulls, two oxen and one hundred and twenty-one hogs. Out of this number I found one cow having tuberculosis, which was condemned and killed and the premises thoroughly disinfected.

Forty-four horses have been examined for signs of glanders, nine of which, after the Cattle Commission had reported on them, I had destroyed and the stable disinfected.

Cows to the number of twenty-five have been brought into the city from outside the State, which I have identified and had released.

During the year I have measured the size and inspected forty-five stables in regard to light, ventilation, cleanliness and the general hygienic conditions.

On account of the prevailing "foot and mouth disease," I am at present making a re-inspection of all the animals in the city for any signs of the disease, but so far have found only one case that shows any symptoms of it, and that has been placed in quarantine to await developments. So far the city has been free from it and we hope it will remain so.

The city has had fewer cases of glanders than in any previous year, showing that we are gradually getting control of the disease.

Respectfully submitted.

W. A. SHERMAN, D. V. S., M. D.

*Inspector of Animals.*

#### CASES OF CONTAGIOUS DISEASES REPORTED.

	1902	1901	1900	1899	1898
Diphtheria, including Croup .....	667	803	157	152	156
Scarlet Fever .....	116	65	80	173	309
Measles .....	785	356	114	1181	33
Typhoid Fever .....	83	70	85	57	119
Smallpox .....	54	12	23	2	
Totals .....	1705	1306	459	1565	617

#### DEATHS FROM CONTAGIOUS DISEASES.

	1902	1901	1900	1899	1898
Diphtheria, including Croup .....	76	117	27	39	36
Scarlet Fever .....	5	3	0	9	6
Measles .....	8	17	1	26	0
Typhoid Fever .....	16	18	17	17	24
Smallpox .....	4	0	0	1	0
Totals .....	109	155	45	92	66

LOWELL, MASS., Jan. 11, 903.

TO THE MEMBERS OF THE BOARD OF HEALTH.

*Gentlemen:*—I have the honor hereby to submit a report of the work done in the Bacteriological Laboratory during the year ending December 31, 1902.

### DIPHTHERIA.

The summary of the culture examinations is as follows:—

	Primary Cultures.		Secondary Cultures.		No	Whole number
	Positive.	Negative.	Positive.	Negative.	Growth.	of examinations.
January . . . .	82	82	59	68	4	295
February . . .	62	81	96	126	5	370
March . . . . .	58	62	45	86	1	252
April . . . . .	47	34	61	56		198
May . . . . .	21	37	30	55		143
June . . . . .	34	34	27	24		119
July . . . . .	21	14	32	36	3	106
August . . . .	29	7	49	24	1	110
September . .	31	15	23	34	1	104
October . . . .	30	48	41	41		160
November . .	42	53	22	40		157
December . .	46	53	36	52		187
	503	520	521	642	15	2201

### QUARANTINE PERIOD.

In 592 cases of diphtheria which recovered, the average length of quarantine with one negative culture required for release was 20 days.

398 cases lasted 14 to 28 days.

43 cases lasted 28 to 36 days.

25 cases lasted 36 to 45 days.

7 cases lasted 45 to 53 days.

## ANTITOXIN.

	Cases.	Died.	Per cent. of deaths.
Diphtheria .....	536	39	7.2
Croup .....	3	2	66.66

## NO ANTITOXIN.

	Cases.	Died.	Per cent. of deaths.
Diphtheria .....	118	29	24.5
Croup .....	10	9	90

During the month of January two trips were made outside of the city to trace, if possible, the connection between the milk supply and certain cases of diphtheria, one of which had a positive result, showing very well the dangerous character of so called mild diphtheria and the harm that an infected individual may do, though comparatively well.

On January 26th the Agent of the Board of Health found that eight cases of diphtheria had appeared in one day along the route of one milkman. On January 27th a visit was made by the Milk Inspector and the Bacteriologist to the house of the milkman outside of the city. There everything connected with the business was found to be in excellent condition. The milkman did not have cows of his own, but collected the milk from neighboring farmers.

Four persons lived in the house, and, permission being given, cultures were taken from the nose and throat of each.

It was found that the milkman himself had become slightly ill January 22nd with what he thought was a "cold," which was sufficient to make him stay abed for two days. On January 24th he got up with a slight sore throat and remained in the house until the 26th,



when he went out and collected the milk as usual, but did not deliver it in the city himself because the weather was stormy. He consulted a physician about his throat on the morning of the 27th, and was working about the barn at the time of the visit.

His assistant, a young man about eighteen years old, had done the work, with the help of a boy, during his employer's illness. On January 23rd, however, he had complained of a sore throat which he attributed to a cold caught during a sleigh ride on the 21st. He did not feel at all ill but went about his work with his throat wrapped up.

Both employer and assistant looked healthy and vigorous. In each there was a moderate pharyngitis and coryza with no membrane. Cultures from them gave the Klebs-Loeffler bacillus in both nose and throat. The cultures from the other two persons in the house were negative.

The milkman immediately turned his business over to another man and voluntarily submitted to quarantine, with his assistant, and had all his utensils disinfected. Cases of diphtheria continued to appear along his route until February 6th, numbering in all 43, of which 4 died. Cultures from the milkman and assistant continued to show diphtheria bacilli until February 12th.

It was not possible to trace the disease farther than the house of the milkman himself, but it was suspected that the infection came from a mild case of diphtheria in the city, in which objections to quarantine were made.

In the fall, the report of the "Committee of the Massachusetts Association of Boards of Health on

Diphtheria Bacilli in Well Persons," in the work of which this laboratory took part, was received. The territory covered in the investigation included:—

In Massachusetts—Boston, Brookline, Newton, Waltham, Lowell and Springfield.

In New York—New York City and the Willard State Hospital.

Providence in Rhode Island.

Washington, D. C.

Minnesota.

Ontario, Canada.

In all 4250 individuals were examined and it was found that 2.89 % of the total number were infected with diphtheria bacilli; in the East alone, 1.39 %.

The Committee believes, as a result of its investigations, that in urban communities at least 1 to 2 % of well persons among the general public are infected, and that where well persons are exposed to diphtheria, as in families, schools and institutions where cases exist, the number infected is much larger, and may range from 8 to 50 %.

The Committee recognizes that two classes of persons carrying diphtheria bacilli are to be considered: those not recently or directly exposed to the disease and those known to be exposed recently. It therefore adopts the following conclusions:—

1st. It is impracticable to isolate well persons infected with diphtheria bacilli if such persons have not, so far as is known, been recently exposed to the disease. But if such cases should come to the knowledge of health officers they should be warned that they are dangerous, and instructed to take precautions.



2nd. It is not advisable, as a matter of routine, to isolate from the public all the well persons in infected families, schools and institutions. It is advisable, however, to keep the children of infected families away from school and all public places. Wage earners may usually be allowed to continue their work, with the exception of teachers, nurses and others who are brought into close contact with children. Milkmen should not be allowed to continue their business.

In these conclusions the Committee simply recommends what appears to be the most expedient course to pursue, after considering the various conflicting interests of the public and the infected individual.

#### TUBERCOLOSIS.

Examination of sputum for the presence of the Tubercle Baccillus.

##### TUBERCLE BACILLUS.

Present.	Absent.	Whole number of examinations.
27	114	141

#### TYPHOID FEVER.

Examination for the Widal Blood Serum Reaction.

##### WIDAL REACTION.

Present.	Absent.	Atypical.	No result.	Whole number.
58	40	3	110	211

#### MALARIA.

Only two specimens of blood were sent in for examination for the presence of Plasmodium, which proved to be negative.

A number of other examinations for various organisms were made.

THOMAS B. SMITH, M. D.,  
*Bacteriologist.*

CASES OF DIPHTHERIA AND CROUP REPORTED TO THE BOARD OF  
HEALTH FOR THE YEAR 1902.

	DIPHTHERIA.		CROUP.	
	Cases.	Deaths.	Cases.	Deaths.
January .....	120	11	4	3
February .....	105	13	1	1
March .....	58	2	1	1
April .....	66	7	1	1
May .....	31	3	0	0
June .....	42	5	3	3
July .....	26	1	0	0
August .....	28	1	1	0
September .....	37	4	2	2
October .....	36	4	0	0
November .....	52	6	0	1
December .....	53	7	0	0
	<hr/>	<hr/>	<hr/>	<hr/>
	654	64	13	12

Mortality of Diphtheria, 9 1-2 per cent.

Mortality of Croup, 92 per cent.

MORTALITY OF DIPHTHERIA.

1894.....	33 %
Antitoxin treatment 1895.....	44 %
1896 .....	43 %
1897 .....	23 %
1898.....	23 %
1899.....	18 %
1900.....	10 %
1901.....	12 %
1902.....	9.5 %

DIPHTHERIA.

During the year 1901, Lowell had the largest number of cases of diphtheria of any city in the United States, excepting Minneapolis, which had 803. It continued with increasing virulence during the first month

of 1902--120 cases, the record height for any one month in the year 1902. Total for 1902, 654 cases.

Sunday, January 26th, following an examination of the Inspector's reports, it was found that in eight cases of the day previous, the families were served by the same milkman, whose supply depot was in an adjoining town.

This seemed to be an important discovery and the Milk Inspector with the department Bacteriologist were sent to the home of the milkman, in order to ascertain if there was any reason to suppose him to be the source of infection. They found the place and the method of distribution above suspicion, but the proprietor had been unwell for several days with a sore throat, and his assistant was wearing a cloth around his throat, which had troubled him for some time.

On being questioned, it was found that both had consulted a local physician, but as he saw no patches, he diagnosed the trouble as tonsilitis. Cultures were taken from both throats and they were found to contain diphtheria germs. They both stopped at at once the delivery of milk, and all cans and receptacles on the route were collected and thoroughly washed and sterilized.

Following this discovery, a number of milkmen were examined by culture but all were found in healthy condition. From January 26th to February 6th, forty-three cases of diphtheria were traced to the personal exposure or the milk supply of this vendor.

During the year this department took charge of cases of diphtheria turned over to it by physicians in accordance with its offer previously made.

Outside of cases sent to the hospital, six families in which diphtheria had appeared were taken care of

at home. The conditions, as a rule, were extremely unfavorable and many cases were desperate from delay.

Each time cultures were taken from all the children in the family, and sometimes from the parents also. The six families contained 21 children, among which 15 cases of diphtheria were found. Antitoxin was used freely and as soon as possible. In the fifteen cases there was one death.

It is said that the first epidemic of typhoid fever traced to milk was in 1867 and the first diphtheria in 1877. These and other cases which had been reported were brought together in 1881 by Mr. Ernest Hart, and laid before the International Medical Congress of that year in a striking paper, which at once drew universal attention to milk supply as a vehicle of infectious disease. Mr. Hart in his paper gave the history of fifty epidemics of typhoid fever, fifteen of scarlet fever and four of diphtheria. In the light of the results from the local infection, we were very fortunate in finding and stopping the danger in so short a time, and it was due entirely to the fact that the department keeps a very exhaustive history of every case of contagious disease that is reported to the office, and from that record we were immediately put upon a trail that, had there been much delay, would have caused grave disaster to the citizens of Lowell.

The following quotation from the remarks of a member of a suburban Board of Health before the Massachusetts Association of Boards of Health in 1902 seems apropos to the subject under review.

“If we consider merely the matter of cleanliness and the prevention of disease in milking the cows and taking the products to market, we still have a very large and difficult question to deal with. No doubt

Boards of Health can do something to improve cow stables, to secure more cleanliness, but from what I have seen myself (and I was brought up on a farm) I know that a large part of the filth which gets into the milk gets there in ways beyond the direct control of Boards of Health, for it gets there by the careless behavior of the milker.

“ The day has gone by when a pretty milkmaid went, in clean white apron, with shining milk pail, to milk the cow with the crumpled horn, out among the buttercups of a dewy morn. Instead, some old fellow stumbles out of the house and to the barn, with a stump of a clay pipe in his mouth, and wearing boots saturated and covered with the filth acquired by a winter's use. When he reaches the barn he selects some recumbent cow, kicks her until she stands up, dripping and slimy, and as he is a little late and the milk will have hardly time to cool before the man who carries it to the city will come along, he does not stop to clean up behind the cow, but sitting down on a stool, proceeds to gather the milk and whatever else may fall into a pail which perhaps is clean and perhaps is not. Of such refinements as washing the udder of the cow or wiping her flanks, he has never heard. If he has it is only to scoff. Then he strains the milk behind the cows. That is bad enough, but it is not all the story. Every one knows that in straining the milk the strainer becomes obstructed more or less with dirt and filth, and when the milk does not run fast enough, he would be a rare milker who hesitated to scrape away a place with his fingers so that the milk might run more freely. Those that have seen certain fingers, as I have, know what that means.”

After the actual contagion from the milk distributor was checked, the consequential results gradually grew less, and taking the remainder of 1902 as compared with 1901 we are enabled to show a marked decrease in the number both of reported cases and of deaths.

Following the effort made by the City Council of 1901 to conform to the Statute requiring the erection and maintenance of a Contagious Disease Hospital in every city, a committee of both branches was appointed to investigate and report. They attended to the duty, but no final action was taken either by the committee or by the City Council.

Our expense at the Lowell Hospital for 1902 was \$747.42, as compared with \$814.18 in 1901, for the following list of patients:—

Isaac McClellan .....	\$ 9 04
Allen Halfyard .....	20 00
Winnie Halfyard .....	31 43
Nina Halfyard .....	30 00
Peter A. O'Hearn .....	5 71
Alex Freedman .....	7 14
Henry Callahan .....	20 00
Winifred Kelly .....	15 71
Gen. Renny .....	17 14
Cora Johnson .....	4 29
E. Chappelle .....	21 43
A. Montferrand .....	20 00
Lauretta Warren .....	44 29
Ernest Howe .....	22 86
Lucy Krapolian .....	18 71
Cora Smith .....	8 25
John McMann .....	7 86
Mary McMann .....	5 00
Ed. McMann .....	14 93

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Amount carried forward ..... \$323 79



Amount brought forward.....	\$323 79
Katherine Ryan .....	18 57
Wm. Dyer .....	21 43
James Farley .....	17 14
Agnes Hayden .....	27 14
John Hayden .....	22 86
Robert Rutledge .....	27 14
Ellen and Emily Wahlgren .....	23 62
Francis Stanniford .....	15 71
Esther McGann .....	4 29
Ethel Fox .....	12 86
Guerzno Petryllo .....	8 57
James Callahan .....	24 29
Ralph Cutter .....	64 29
Alice McNulty .....	35 71
Nellie McNulty .....	34 29
Geo. Farley .....	24 29
Mabel Taylor .....	31 43
	<hr/>
	\$747 42

The amount spent at the hospital for the care of patients suffering from diphtheria was controlled in a great degree by the careful attempt to keep within the insufficient appropriation doled to the department, and success, from that point of view, was achieved by the turning back to the General Treasury Fund, at the close of the year, fifty-nine dollars and fourteen cents (\$59.14). So that from an economic standpoint its comparison with thousands of dollars spent by Worcester, Cambridge, Lynn, Newton and other Massachusetts cities, for the care and treatment of a less number of cases, is to our credit. But if human life has a commercial value, the test of dollars and cents ought not to take precedence over its saving and continuance, and there is but little doubt that municipal hospital facilities would have afforded an instrument to the

department that would have materially controlled the progress of the epidemic and reduced both the number of cases and of deaths.

### TUBERCULOSIS.

Since September 25th, immediately following the vote of the Board including tuberculosis in the list of diseases that are considered dangerous to the public health, thereby calling for notification from physicians, examination of premises, and cleaning of rooms, if deemed advisable after the inspection, thirty-five cases have been reported by physicians, and there have been thirty deaths from the disease. Eighteen houses have been fumigated and the woodwork and floors of twelve houses have been washed with corrosive sublimate.

A large proportion of the sickness and deaths has been in families that have realized the importance of care in prevention of danger from the sputum, and have, of their own volition and responsibility, done everything as quickly and as well as the department could do.

The experience to come from a longer study of the proper action to take in each individual case will aid towards the application of preventive measures in the future.

### SMALLPOX.

The department had in its care, January 1st, four cases of smallpox at its hospital. During 1902 provision and treatment were given to fifty four cases of smallpox at the hospital, resulting in four deaths, at a gross cost to the city of \$6,626.20.



In payment for services rendered we			
received from State of Mass . . . . .	\$1,546	01	
State of Mass . . . . .	658	00	
Newburyport . . . . .	466	32	
Dracut . . . . .	98	70	
			2,769 03
Net cost . . . . .			\$3,857 17

## 1902

Jan. 6	Mrs. Robert Mowatt . . . . .	Discharged Feb. 10
Jan. 15	Mrs. Alma Bourgeault . . . . .	Discharged Feb. 1
Jan. 23	Joseph Cote . . . . .	Discharged Feb. 5
Jan. 26	Roland Lemay . . . . .	Discharged Feb. 15
Feb. 7	Oscar Lemay . . . . .	Discharged Feb. 25
Feb. 7	Arthur Lemay . . . . .	Discharged Feb. 25
Feb. 7	Anile Lemay . . . . .	Discharged Feb. 25
Feb. 7	Clarence Lemay . . . . .	Discharged Feb. 25
Feb. 25	Arthur Coulombe . . . . .	Discharged Mar. 14
Feb. 26	Ovila Dion . . . . .	Discharged Mar. 14
Mar. 13	Mrs. Odilion Rochette . . . . .	Discharged Apr. 10
Mar. 13	Baby Rochette . . . . .	Died Mar. 22
Mar. 13	Jeremiah White . . . . .	Discharged Mar. 27
Mar. 16	Rudolph Beaudry . . . . .	Discharged Apr. 5
Mar. 17	Armand Paquette . . . . .	Discharged Apr. 2
Mar. 17	Alphonsine Paquette . . . . .	Discharged Apr. 10
Mar. 17	Laura Paquette . . . . .	Discharged Apr. 10
Mar. 28	Blanche Chenelle . . . . .	Discharged Apr. 23
Apr. 1	Joseph Jolley . . . . .	Discharged Apr. 14
Apr. 6	Joseph Chenelle . . . . .	Discharged Apr. 23
Apr. 6	Hector Chenelle . . . . .	Discharged Apr.
May 8	Alfred Minteau . . . . .	Discharged May 23
May 8	George Minteau . . . . .	Discharged May 31
May 15	Joseph Minteau . . . . .	Discharged May 31
May 19	Dola Minteau . . . . .	Discharged May 31
May 19	Anile Minteau . . . . .	Discharged May 31
May 16	Casimir Lefebvre . . . . .	Discharged June 25
May 22	Celina Martel . . . . .	Discharged June 6
June 5	Evelina Lamarche . . . . .	Discharged June 30
June 5	Napoleon Lamarche . . . . .	Discharged June 12
June 5	Edward Lamarche . . . . .	Discharged June 28

June 5	Treffey Lamarche	Discharged June 28
June 5	Frank Lamarche	Discharged June 28
June 7	Arsene Gervais	Died June 12
June 7	Eva Pinta	Died June 12
June 10	Rev. Louis V. Lewis	Discharged June 23
June 12	Angelina Desrosiers	Discharged July 3
June 16	Alfred Germain	Discharged July 2
June 19	Emerence Pintal	Discharged June 30
June 12	Rosalba Desrosiers	Discharged July 16
July 7	Belzemire Lebreque	Discharged Aug. 1
July 7	Joseph Lebreque	Discharged Aug. 1
July 7	Melvina Lebreque	Discharged Aug. 1
July 7	Lucy Lebreque	Discharged Aug. 1
July 7	Rosalie Lebreque	Discharged Aug. 1
July 7	Laudia Lebreque	Discharged Aug. 1
July 9	Joseph Boucher	Discharged Aug. 9
July 16	Mrs. Delia Aveny	Discharged July 30
July 17	Absalom Lebreque	Discharged Aug. 1
July 18	Archie Lebreque	Discharged Aug. 1
July 21	Marie Lebreque	Discharged Aug. 1
July 21	Emelie Lord	Died July 26
July 29	Alphonsine Grenier	Discharged Aug. 6
July 21	Baby Lord (1 month old)	Died Aug. 6

Smallpox Hospital closed Aug. 9th, 1902.

#### SUSPECTS TAKEN TO SMALLPOX HOSPITAL FOR OBSERVATION AND SAFETY.

1 Jan. 26	Max Lemay	Discharged Feb. 15
2 Jan. 26	Sanilda Lemay	Discharged Feb. 15
3 Jan. 26	Louise Lemay	Discharged Feb. 15
4 Jan. 26	Exina Lemay	Discharged Feb. 15
5 Jan. 26	Antoinette Lemay	Discharged Feb. 15
6 Jan. 26	Joseph Lemay	Discharged Feb. 15
7 Feb. 25	Mrs. Coulombe	Discharged Mar. 14
8 Feb. 25	Corina Coulombe	Discharged Mar. 14
9 Feb. 25	Louisa Coulombe	Discharged Mar. 14
10 Feb. 25	Arthur Coulombe, Jr.	Discharged Mar. 14
11 Feb. 26	Adolphe Dion	Discharged Mar. 14
12 Feb. 26	Clara Dion	Discharged Mar. 14

13 Feb.	26	Adelia Dion	Discharged Mar.	14
14 Mar.	15	Francis Paquette	Discharged Apr.	2
15 Mar.	18	Francis Chenelle	Discharged Apr.	23
16 Mar.	18	Olin Chenelle	Discharged Apr.	23
17 May	8	Helen Minteau	Discharged May	31
18 May	8	Sister Minteau	Discharged May	31
19 June	5	Joseph Lamarche	Discharged June	12
20 June	5	Rose Lamarche	Discharged June	12
21 June	12	Elizabeth Desrosiers	Discharged July	3
22 June	12	Frederick Desrosiers	Discharged July	3
23 June	12	Honore Desrosiers	Discharged July	3
24 June	12	Alphagia Desrosiers	Discharged July	3
25 June	12	Georgianna Desrosiers	Discharged July	3
26 June	12	Chas. A. Desrosiers	Discharged July	3
27 July	7	Louis Lebreque	Discharged Aug.	1
28 July	7	Henrietta Lebreque	Discharged Aug.	1
29 July	7	Archelle Lebreque	Discharged Aug.	1
30 July	7	George Lebreque	Discharged Aug.	1
31 July	7	Archia Lebreque	Discharged Aug.	1
32 July	7	Marie Lebreque	Discharged Aug.	1

SUSPECTS QUARANTINED AT HOMES AND SUPPLIED WITH FOOD,  
COAL AND WOOD BY THE HEALTH DEPARTMENT.

88 Ford st	6 persons from Jan. 15 to Feb.	1.
127 Hancock ave	6 persons from Jan. 26 to Feb.	17.
9 Hancock ave	3 persons from Mar. 13 to Mar.	26.
26 Willie st	5 persons from Mar. 13 to Mar.	26.
171 Cushing st	5 persons from Mar. 17 to Apr.	2.
186 Perkins st	9 persons from May 16 to June	1.
25 Rogers st	6 persons from May 22 to May	31.
205 Cheever st	4 persons from June 5 to June	12.
42 Gershom ave	6 persons from June 7 to June	17.
34 Ward st	10 persons from June 7 to June	14.
3 rear 183 Cheever st	12 persons from June 16 to July	2.
68 Chambers st	5 persons from July 16 to July	30.
28 Ward st	8 persons from July 21 to July	28.
85 persons at home		

Not since 1872 has Lowell had to grapple with so serious a visitation of smallpox as has been our misfortune during the year just passed (1902). Its primary lodgement among the French people, in the most congested part of the city, and the delay consequent in controlling the original cases, through lack of notification or discovery, gave the opportunity for the disease to get further beyond the Health Department measures towards its suppression than it ought, under other conditions and with any other nationality.

When we consider the large number of suspects that were exposed to a greater or less degree, the wonder is that we had so few, instead of so many, that were unable to escape from exposure.

The original plan of vaccinating all who were in possible contact was gradually enlarged, until practically all of the French speaking population resident on both sides of the Merrimack River near Little Canada were examined and vaccinated. Our investigations led us to the conclusion that the annual change of population leaves at the expiration of the first year, about ten per cent. unprotected by vaccination, which will always be a menace to the freedom of the city from future epidemics.

#### VACCINATION.

	Number of vaccinations.	Cost.
Office of Board of Health .....	1916	\$514
Faulkner's Mills. ....	493	
Lawrence Mfg. Co. ....	915	
House to house, infected districts .....	1883	\$785 30
Lowell Jail .....	400	
Stover & Bean's Shoe Shop .....	254	
Pilling's Shoe Shop .....	250	
Total .....	6111	

The vaccination of residents in an infected district by house to house calls is not so satisfactory as the work done when the child or adult calls for that purpose at the Dispensary rooms at City Hall, where from 4 to 5 o'clock daily there is always in attendance a physician employed by the department for that purpose. The reason is mainly as stated in the following quotation from an address delivered at the last meeting of the American Medical Association at Chicago.

"There are doctors, and good ones, too, who have had so little experience with vaccination that they do not know what constitutes a successful vaccination. I visited a neighboring town where a reputable physician of unquestioned ability told me he had a case of what he believed to be smallpox, in a child he had vaccinated six weeks previous with a typical result. With the doctor I visited the child, found smallpox present, but absolutely no evidence of vaccination. There had been a scarification, too deep and too large, a black scab and a sore, but no vesicle, no febrile reaction and no scar.

"Had not some one who knows a vaccination seen this child, the story would have been published to the world that a child had smallpox who had been vaccinated six weeks before the attack—a circumstance that never occurred *and never will occur*.

"Within a year there have been cases of smallpox reported by doctors as having occurred in persons after a recent vaccination. I am perfectly satisfied in my own mind that such cases are either chicken pox, mistaken for smallpox, or more frequently the supposed post-vaccinal victims are not vaccinated at all, but have sore scarifications which are mistaken for and put down as 'vaccinations.'"

Unless in house to house vaccinations second calls are made for verification, which is impracticable, there is nothing to show as to whether the operation has been successful, while we have the following blank record for our protection:—

Date of vaccination . . . . .  
 Name of vaccinated person . . . . .  
 Revaccination of persons previously successfully vaccinated . . .  
 Age . . . . .  
 Residence . . . . .  
 Source of lymph . . . . .  
 Name of producer . . . . .  
 Number of separate scarifications . . . . .  
 Initials of vaccinator . . . . .  
 Date of inspection . . . . .  
 Result . . . . .  
 Initials of Inspector . . . . .  
 Certificate of vaccination given, Yes or No . . . . .  
 Remarks . . . . .

#### COST OF SMALLPOX.

1885, 4 cases . . . . .	\$1,603 54
1894, 8 cases . . . . .	7,850 86
1899, 2 cases . . . . .	1,038 52
1900, 23 cases . . . . .	4,756 72
1901, 8 cases . . . . .	982 33
1902, 53 cases . . . . .	6,626 20

#### SMALLPOX BILLS 1902.

Almshouse, Pauper Dept., provisions . . . . .	\$ 526 34
Alexander, H. M. & Co., vaccine . . . . .	145 00
Amyl Kijo Chemical Co., disinfectant . . . . .	9 50
Beaulieu, J. H., provisions . . . . .	79 52
Burnham & Davis, lumber . . . . .	7 75
Brooks, J. S., provisions . . . . .	156 36
Bates, F. A., provisions . . . . .	61 98

Amount carried forward . . . . .	<hr/> \$986 45
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Amount brought forward .....	\$986 45
Brocks, G. C. & Co., medicine.....	1 00
Bill, F. M., provisions.....	4 15
Carter, Chas. E., medicine.....	293 18
Connors Bros., coal and wood .....	50 50
Coburn, C. B. & Co., glycerine .....	70
Courier-Citizen Co., advertising.....	7 20
Cawley, Edward, coal and wood.....	53 02
Callaghan, John, tinware.....	5 69
Coutue, A. J. ....	90
Carleton & Hovey, medicine.....	25
Drury, H. V., rent.....	16 00
Daily News Co., advertising.....	7 80
Drapeau, Wm., rent .....	18 34
Dempsey, P., alcohol.....	42 60
Donovan Harness Co.....	1 50
Donovan, D. J., provisions.....	17 04
Delisle & Co., medicine.....	2 50
Dodge, W. E., Agt., rent.....	7 50
Ellingwood & Co., medicine.....	41 00
Emerson, F. L., milk.....	74 93
Folsam, A. L., rent.....	10 50
Farrell & Conaton, plumbing.....	9 39
Fay, Thos. F., cleaning dry well.....	27 00
Carter & Sherburne, medicine.....	1 25
Gervais, Edward, bedding destroyed.....	15 00
Gerow, David, matches.....	18
Guilmette, J. H., rent.....	21 00
Hart, D. J., pastry.....	31 60
Harris, G. W., rent.....	4 00
Johnson & Johnson, fumigating candles.....	24 00
Knapp, H. H., sundries.....	31 10
Lepine & Co., advertising.....	5 50
Lowell Sun, advertising.....	7 50
Livingston, E. G., M. D., medical treatment.....	1,855 50
Lowell Daily Mail, advertising .....	6 00
LePorte & Co., provisions.....	21 08
Lafiere & Co., medicine.....	5 68

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Amount carried forward ..... \$3,708 53

Amount brought forward .....	\$3,708 53
Lavallee, G. O., M. D., vaccinating .....	118 95
Lennon, John, liquor .....	3 20
Mulcahey, J. V., serum .....	1 50
Moore & Bennett, coal .....	17 50
Mongeau, G. E., rent .....	15 00
Merrimack Clothing Co., clothing .....	22 50
McAvinnue, Frank, M. D., vaccination and medical services .....	517 90
Mulford, H. K., vaccine .....	5 00
Mack, W. A., tinware .....	10 00
McKercher, Alfred, rent .....	2 86
O'Donnell & Gilbride, bedding, etc .....	270 51
Pollard, A. G. & Co., sundries .....	4 83
Parker Est., rent .....	3 50
Perreault, E. D., rent .....	8 00
Quinn, John P., wood .....	29 00
Sunday Telegram, advertising .....	2 08
Sullivan, D. T., coal and sand .....	22 50
St. Patrick's Cemetery .....	50 00
School House "Sundries," labor .....	28 75
Stanley & Co., coal .....	2 00
Talbot Dyewood & Chemical Co., sulphur .....	81 25
Tobin, F. A. M., printing .....	3 90
Tarte, J. N., provisions .....	69 80
Thompson Hardware Co., hardware .....	7 50
Thibeault, Joseph, rent .....	13 00
Tousignant Bros., provisions .....	15 36
Vincent Bros., rent .....	11 00
White, J. J., labor .....	33 75
Yard Appropriation "Sundries", labor .....	143 00
	<hr/>
	\$5,222 67



## ANALYSIS.

Medical Treatment .....	\$1,530 00
Expenses at Hospital .....	1,524 78
Investigation and examination of suspects .....	171 00
Vaccination .....	888 58
Bedding and clothing destroyed .....	235 75
Fumigation .....	167 00
Quarantine .....	631 70
Coffin, grave and opening .....	68 86
Advertising .....	5 00
	<hr/>
	\$5,222 67
Labor pay roll .....	1,403 45
	<hr/>
	\$6,626 12

## SCARLET FEVER.

	1902	1901	1900	1899	1898
Cases reported .....	116	65	80	173	90
Deaths .....	5	6	0	9	6
Per cent. fatal cases .....	4	9	0	5	2

1902.	Reported cases.	Deaths.
January .....	2	0
February .....	5	0
March .....	5	0
April .....	7	1
May .....	7	0
June .....	9	0
July .....	7	1
August .....	1	0
September .....	9	1
October .....	13	1
November .....	34	1
December .....	17	0
	<hr/>	<hr/>
	116	5

## MEASLES.

1902.	Reported cases.	Deaths.
January .....	284	2
February .....	229	3
March .....	161	2
April .....	50	0
May .....	30	0
June .....	15	0
July .....	5	0
August .....	6	0
September .....	0	1
October .....	2	0
November .....	2	0
December .....	1	0
	<hr/> 785	<hr/> 8

## TYPHOID FEVER.

1902.	Reported Cases.	Deaths.
January .....	2	1
February .....	7	0
March .....	8	0
April .....	1	0
May .....	5	3
June .....	0	1
July .....	5	0
August .....	3	4
September .....	10	2
October .....	25	3
November .....	10	2
December .....	7	0
	<hr/> 83	<hr/> 16

## TYPHOID FEVER.

	Reported cases.	Deaths.
Total 1902 .....	83	16
Total 1901 .....	70	18
Total 1900 .....	85	17
Total 1899 .....	57	17
Total 1898 .....	119	24
Total 1897 .....	105	18
Total 1896 .....	178	36
Total 1895 .....	172	33
Total 1894 .....	282	50
Total 1893 .....	160	53
Total 1892 .....	373	75
Total 1891 .....	293	77
Total 1890 .....	454	123

## PLACES OF DEATH.

Ward 1 .....	0
Ward 2 .....	1
Ward 3 .....	3
Ward 4 .....	2
Ward 5 .....	1
Ward 6 .....	2
Ward 7 .....	1
Ward 8 .....	2
Ward 9 .....	0
Alms-house .....	0
St. John's Hospital .....	2
Lowell Hospital .....	1
Lowell General Hospital .....	1
	<hr/>
	16
Males .....	9
Females .....	7
Oldest .....	65 years
Youngest .....	2 years

## TYPHOID FEVER.

Reported cases and deaths for thirteen years (1890 to 1902 inclusive) in the city of Lowell.

Year.	Population.	Reported Cases.	Deaths.
1890	77,696	454	123
1891	79,029	293	77
1892	80,361	373	75
1893	81,694	160	53
1894	83,026	282	50
1895	84,359	172	33
1896	85,700	178	36
1897	87,000	105	18
1898	87,000	119	24
1899	90,114	57	17
1900	94,969	85	17
1901	94,969	70	18
1902	99,574	83	16

A decrease from 1.58 per thousand inhabitants to .11 in 13 years.

## CITY OF LAWRENCE.

1890	44,654	193	55
1891	46,127	207	53
1892	47,650	172	44
1893	49,220	141	33
1894	50,845	92	24
1896	54,000	42	8
1897	57,500	72	9
1898	58,500	85	11
1899	59,072	135	20
1900	62,559	76	11
1901	65,000	100	12
1902	68,500	102	11

A decrease from 1.23 per thousand inhabitants to .16 in 13 years.

Sixteen deaths from typhoid fever in 1902 is the smallest number since 1863—40 years—in which time we have increased our population from 33,000 to 99,000. To accomplish the above it has taken large sums of money, but the success in relieving the people of Lowell from the sickness and death resultant from an almost continuous epidemic for years should be a source of congratulation to the people, and of satisfaction to those who worked steadily towards its completion, when it could only be in the nature of an experiment.

The results coming from a change in the water supply of Lowell (before 1896 from a sewage-polluted river to a system of driven wells) are brought clearly in view by a study of the above table. The change for the better in Lawrence is due to the construction of a filter gallery, through which the water of the Merrimack River must pass before reaching the faucets of the public water supply.

The comparison between Lowell and Lawrence is a very natural one, owing to the fact that they are on the same river and but nine miles apart, and to accomplish improved results from typhoid, both cities had to be protected from drinking the raw product of the stream. And both have made such a distinct improvement, through different methods, as to relieve themselves from the unfortunate distinction of standing for years in the list of American cities that were compelled to present yearly an abnormal death rate from typhoid fever, caused by the drinking water supply of the city coming from a sewage-polluted river.

Taking the years from 1871 to 1891, the typhoid fever death rate was the highest in Chicago and next in Lowell. In 1902, taking a list of typhoid fever death

rates computed from statistics collected and published under Act of Congress, by the Department of Labor at Washington, Lowell is the 112th city in a list of 132 cities in the United States.

When the public water supply is practically pure, the annual death rate should not exceed twenty per hundred thousand of population living. Frequently it may be somewhat higher, caused by milk infection, private wells, autumnal returns from country vacations or some form of secondary infection. Fortunately, the geological conditions near Lowell gave us a ground water supply which, coming from springs or a large underground stream, was already filtered and free from tastes, odors, sewage pollution and those germs capable of transmitting such infectious diseases as typhoid fever.

The citizens of Lowell have abundant reason for gratitude when they realize that for years the annual typhoid fever rate ranged from eighty to one hundred ninety-five per 100,000 inhabitants, when the water supply was taken from the Merrimack River, while at present (1902) the annual death rate is only about 20 to 100,000, now that a driven-well supply has been substituted.

It does not seem possible, under the changed conditions, for either Lawrence or Lowell to again experience an epidemic of typhoid approaching the severity of the one of 1890-1891. And the city of Lowell is also to be congratulated that since the discontinuance of the driven-well plants along the edges of Hale's Brook, no official notice has been received that indication or suspicion of injury from the effects of lead poisoning has affected any consumer of the present boulevard supply, for the past two years.

## DEATHS FROM CHOLERA INFANTUM.

	1902	1901	1900	1899	1898	1897
January .....	0	0	0	0	0	1
February .....	0	0	0	0	1	4
March .....	0	1	0	0	0	0
Total first quarter	0	1	0	0	1	5
April .....	0	0	0	1	0	1
May .....	1	1	0	1	0	1
June .....	3	4	5	12	11	4
Total second quarter	4	5	5	14	11	6
July .....	59	27	66	77	69	53
August .....	22	38	28	38	65	61
September .....	20	24	20	39	29	34
Total third quarter	101	89	114	154	163	148
October .....	1	4	10	7	8	16
November .....	1	0	1	1	3	0
December .....	0	0	1	0	0	2
Total fourth quarter	2	4	12	8	11	18
Total for the year .....	107	99	131	176	186	177

## PRINCIPAL CAUSES OF DEATH.

	1902	1901	1900	1899	1898
Cholera Infantum and other diarrhoeal diseases . . . . .	120	120	142	186	201
Phthisis and other tubercu-loses . . . . .	164	170	186	197	209
Pneumonia and Bronchitis . . .	278	310	282	254	263
Infantile debility, marasmus and inanition . . . . .	172	156	137	112	115
Heart Disease . . . . .	219	197	190	156	163
Typhoid Fever . . . . .	16	18	17	17	24
Apoplexy and Paralysis . . . . .	140	106	108	82	104
Old Age . . . . .	34	40	40	22	49
Diseases of the brain (unclassified) . . . . .	35	49	41	29	24
Convulsions . . . . .	43	45	41	43	41
Diseases of the kidneys . . . . .	77	82	73	54	91
Meningitis . . . . .	73	67	65	53	59
Diphtheria and Croup . . . . .	76	117	27	40	36
All other causes . . . . .	488	561	500	603	429
Total for the year . . . . .	1935	2038	1849	1848	1808

## VITAL STATISTICS.

	1902	1901	1900	1899	1898
Deaths, male . . . . .	971	1010	947	923	924
Deaths, female . . . . .	964	1028	902	925	884
	1935	2038	1849	1848	1808
	1902	1901	1900	1899	1898
Children under one year . . . . .	519	539	512	551	516
Children under two years . . . .	618	657	608	655	622
Children under five years . . . .	738	799	687	773	708
Per cent of total deaths under five years . . . . .	38.1	39.2	37.1	41.8	38.1



## VITAL STATISTICS—Continued.

Birthplace.	Of Deceased.	Of Parents-
Lowell .....	930	217
Massachusetts, elsewhere .....	101	199
Other States .....	197	415
Ireland .....	332	1183
Canada .....	192	912
Great Britain .....	95	319
Other Countries .....	65	301
Unknown .....	23	324
	<hr/> 1935	<hr/> 3870

## PLACES OF DEATH.

Ward 1 .....	139
Ward 2 .....	197
Ward 3 .....	175
Ward 4 .....	228
Ward 5 .....	191
Ward 6 .....	200
Ward 7 .....	336
Ward 8 .....	123
Ward 9 .....	111
Almshouse .....	103
Lowell Hospital .....	42
Lowell General Hospital .....	20
St. John's Hospital .....	70
	<hr/> 1935
Still Births during the year .....	142

## PLACES OF INTERMENT.

St. Patrick's Cemetery .....	782
Edson Cemetery .....	394
Lowell Cemetery .....	71
St. Joseph's Cemetery .....	426
St. Peter's Cemetery .....	80
Other Cemeteries .....	24
Removed .....	158
	<hr/> 1935

## DEATHS CLASSIFIED.

	1902	1901	1900	1899	1898	1897
Diseases of the nervous system.	291	267	255	207	227	254
Diseases of the circulatory system .....	225	210	212	169	166	166
Diseases of the respiratory system .....	290	337	305	271	293	289
Diseases of the digestive system.	169	184	142	141	123	115
Diseases of the genito-urinary system.....	80	100	78	54	101	54
All other local diseases.....	26	35	41	97	24	54
Total deaths from local diseases	1081	1133	1033	939	934	932
Total deaths from zymotic diseases .....	281	349	249	347	305	324
Total deaths from constitutional diseases .....	235	245	266	280	274	274
Total deaths from developmental diseases .....	267	254	235	212	232	268
Total deaths from violent or unknown causes.....	71	57	66	70	63	57
Total deaths from all causes...	1935	2038	1849	1848	1808	1855

## DISEASES IN 1902 COMPARED WITH 1901.

	Decrease.	Increase.
Cholera Infantum and other diarrhoeal diseases.	—	—
Phthisis and other tuberculoses .....	6	•
Pneumonia and Bronchitis .....	32	
Infantile Debility, Marasmus and Inanition....		16
Heart Disease .....		22
Typhoid Fever.....	2	
Amount carried forward .....	40	38

## DISEASES IN 1902 COMPARED WITH 1901.—Continued.

	Decrease.	Increase.
Amount brought forward.....	40	38
Apoplexy and Paralysis .....		34
Old Age .....	6	
Diseases of the brain (unclassified) .....	14	
Convulsions .....	2	
Diseases of the Kidneys .....	5	
Meningitis.....		6
Diphtheria and Croup .....	41	
All other causes .....	73	
	<hr/>	<hr/>
	181	78
Total decrease .....	103	

## DEATH RATE.

	Year.	Population.	Deaths.	Death Rate.
Population, census .....	1890	77,696	1959	25.21
estimated .....	1891	79,029	1972	24.95
estimated .....	1892	80,361	2224	27.67
estimated .....	1893	81,694	2094	25.62
estimated .....	1894	83,026	1775	21.28
census .....	1895	84,359	1857	22.01
estimated .....	1896	85,700	1901	22.18
estimated .....	1897	87,000	1855	21.32
estimated .....	1898	87,000	1808	20.78
estimated .....	1899	90,114	1848	20.50
census .....	1900	94,969	1849	19.47
census .....	1901	94,969	2038	21.45
estimated .....	1902	99,574	1935	19.43

Death rate in 1902 smallest since 1879—23 years.

## COLLECTION OF ASHES.

	1902.	1901.
January .....	2660 loads	3160 loads
February .....	2451 loads	2758 loads
March .....	2578 loads	2935 loads
April .....	2556 loads	2728 loads
May .....	1950 loads	1729 loads
June .....	1300 loads	1436 loads
July .....	1243 loads	1395 loads
August .....	1200 loads	1395 loads
September .....	1189 loads	1325 loads
October .....	1414 loads	1652 loads
November .....	1245 loads	1887 loads
December .....	1456 loads	2442 loads
	<hr/>	<hr/>
	21,242 loads	24,842 loads

## Cost of Collection.

## Labor Pay Roll.

1891.....	\$ 8,001 19
1892.....	9,857 42
1893.....	11,542 94
1894.....	12,087 93
1895.....	10,591 40
1896.....	11,311 25
1897.....	12,793 15
1898.....	11,209 70
1899.....	10,903 30
1900.....	10,665 35
1901.....	10,651 28
1902 .....	10,454 80

GARBAGE AND MARKET REFUSE BURNED AT CREMATOR JAN.  
1ST TO DEC. 31ST, 1902.

11 tons swill.  
 415 tons market refuse.  
 61 cats.  
 70 dogs.  
 42 mattresses.  
 2 pigs.  
 6 loads bedding.  
 1 carpet.  
 6 rabbits.

## EXPENSES OF CREMATOR, 1902.

Coal .....	\$158 67
Old grates .....	3 20
Wood .....	16 39
Rent of land .....	150 00
Water .....	5 40
Repairs .....	100 00
Fire brick .....	19 55
Freight on fire brick .....	9 23
Labor (1 man at \$2.25 per day) .....	704 25
	<hr/>
	\$1,166 69

## NUMBER OF LOADS OF SWILL COLLECTED.

	1902.	1901.
January .....	322	380
February .....	280	330
March .....	286	301
April .....	301	295
May .....	308	308
June .....	312	289
July .....	367	307
August .....	307	359
September .....	456	347
October .....	419	344
November .....	315	294
December .....	362	307
	<hr/>	<hr/>
	4035	3861

Total collection for 1902.....	4035 loads
1901.....	3861
1900.....	4217
1899.....	4035
1898.....	3666

## SWILL ACCOUNT.

	1902.	1901.
January .....	\$203 00	\$242 00
February .....	222 00	145 00
March .....	180 00	276 00
April .....	220 50	239 70
May .....	308 88	261 00
June .....	228 13	365 00
July .....	255 00	161 00
August .....	308 62	217 00
September .....	257 49	160 00
October .....	322 87	210 00
November .....	234 23	228 50
December .....	343 00	328 00
Swill permits .....	161 00	175 00
	<hr/>	<hr/>
	\$3,244 72	\$3,008 20
Swill exchanged for hay .....	883 77	895 04
	<hr/>	<hr/>
	\$4,128 49	\$3,903 24

## SWILL LICENSES.

Joseph Bowers .....	Lowell
C. A. Hamblett .....	Dracut
W. F. Richardson .....	Pelham, N. H.
J. P. Eaton .....	Chelmsford Centre
C. F. Devine .....	Chelmsford
McDonald Bros. ....	Lowell
H. Meunier .....	Dracut
Geo. E. Spaulding .....	Chelmsford Centre
J. J. McManmon .....	Dracut
David Benoit .....	Dracut
Calvin Richardson .....	Dracut
Moses Gmagar .....	N. Billerica
Patrick H. Sullivan .....	Tewksbury, Mass
Clement H. Hamblett .....	Lowell
Charles P. Salls .....	Lowell

## SWILL LICENSES—Continued.

J. R. Hayes.....	Dracut
Peter Blanchard.....	Lowell
Joseph D. Branchard.....	Lowell
J. W. H. Seddon.....	Wamesit
Fenwick Nichols.....	Dracut
Chas. A. Randlett.....	Chelmsford

## SWILL PERMITS TO TRANSPORT SWILL FROM CITY YARD.

A. Bouchard.....	Dracut
O. J. Coburn.....	Dracut
Louis Daigle.....	Dracut
S. P. Pike.....	Lowell
Thomas Gourgeon.....	Dracut
Charles D. Kent.....	Pelham
William Nolan.....	Collinsville
O. P. Coburn.....	Dracut
Joseph Norman.....	Hudson, N. H.
B. Ravenelle.....	S. Lowell
Chas. Whitney.....	Westford
D. E. Cameron.....	Dracut
Geo. N. Parker.....	Dracut
W. H. Peabody.....	Pelham, N. H.
Vinton Macnutt.....	Chelmsford Centre
C. C. Udell.....	Dracut
Henry T. Wheeler.....	Lowell
D. N. Cluff.....	Lowell
W. E. Riggs.....	Wigginville
R. D. Snow.....	Pelham, N. H.
E. L. Dow.....	Chelmsford
John M. Graves.....	Dracut
J. M. Currier.....	Dracut
Paul Vigeant.....	Lowell
Mrs. Chas. Jones.....	Dracut
E. C. Perham.....	Chelmsford
Geo. Stiles.....	Lowell
C. O. Robbins.....	S. Chelmsford

Cost of Collecting Swill. Labor Pay Roll.	Disposition of Swill.	Income from Swill.	Cost of Burning.	Amount Burned.	Total Cost, Collection and Crenation of Swill and Garbage.
1884. No Analysis.	Sold.	\$2,671 85			
1885. "	"	3,711 38			
1886. "	"	4,342 00			
1887. "	"	3,604 00			
1888. "	"	2,739 85			
1889. "	"	2,948 52			
1890. "	"	3,166 00			
1891. \$6,000 00	"	3,945 57			
1892. 5,593 02	Burned.	3,239 92	Cost of Crenator. [\$8,000 00]		\$13,593 02
1893. 7,022 66	"		7,670 77	3500 tons.	14,693 43
1894. 7,122 00	"		5,742 69	3486 "	12,864 69
1895. 7,035 97	"		3,662 53	2750 "	10,698 50
1896. 7,064 67	"		3,343 34	2810 "	10,408 01
1897. 7,234 76	Part Burn'd	2,369 99	2,612 07	2629 "	9,846 07
1898. 7,658 20	and	2,445 40	1,644 21	874 "	9,302 41
1899. 7,193 30	Part Sold.	3,547 00	1,397 86	105 "	8,591 16
1900. 7,083 30	All Sold.	{ Cash 3,368 00 Hay 840 72	1,094 65	109 "	8,177 95
1901. 7,027 75	"	{ Cash 2,833 20 Hay 780 04 Buggy 83 00	1,081 14	{ 35 " 347 tons Markets.	7,404 64
1902. 7,259 00	"	{ Manure 32 00 Cash 3,244 72 Hay 883,77	1,166 69	{ 11 tons 415 tons Markets.	8,425 69



## FINANCIAL STATEMENT—EXPENDITURES.

## Pay Rolls. Office.

January .....	\$392 50
February .....	434 00
March .....	591 50
April .....	507 50
May .....	665 00
June .....	568 75
July .....	532 00
August .....	665 00
September .....	532 00
October .....	532 00
November .....	665 00
December .....	602 75
	<hr/>
	\$6,688 00

## Pay Rolls. Yard.

January .....	\$2,064 70
February .....	2,246 45
March .....	2,858 14
April .....	2,486 63
May .....	2,810 21
June .....	2,034 05
July .....	1,981 40
August .....	2,424 00
September .....	1,993 30
October .....	2,030 85
November .....	2,399 75
December .....	2,310 90
	<hr/>
	\$27,640 38

## ANALYSIS OF PAY ROLLS OF 1902 COMPARED WITH 1901.

	1902.	1901.	Decrease.	Increase.
Ashes.....	10,454 80	\$10,651 28	\$196 48	
Swill .....	7,259 00	7,027 75		\$231 25
Alleys and Dumps ...	3,080 20	2,913 90		166 30
General Inspec- tion .....	2,032 50	1,878 00		154 50
Contagious In- spection ..	994 00	1,277 50	283 50	
Repairs .....	618 33	786 31	167 98	
Inspector of Plumbing .	1,095 50	1,095 50		
Blacksmith ...	967 00	798 00		169 00
Stable .....	2,522 00	3,200 50	678 50	
Agent .....	1,825 00	1,824 99		01
Registrar .....	704 25	655 00		49 25
Cremator .....	704 25	704 25		
Smallpox.....	284 55	101 50		183 05
Fumigation ...	839 00	824 55		14 45
Foreman .....	948 00			948 00
	<hr/>	<hr/>	<hr/>	<hr/>
	\$34,328 38	\$33,739 03	\$1,326 46	\$1,915 81
Total increase .....				\$589 35

## ANALYSIS OF BILLS.

*Office.*

## Sundries at office.

Express .....	\$ 18 15
Printed supplies .....	209 70
Plumbing supplies.....	20 40
Fumigating supplies .....	137 39
Stamps and stamped envelopes .....	88 80
Vaccine .....	46 99
Mileage .....	20 00
Quarantine, diphtheria.....	28 93

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Amount carried forward ..... \$570 36

## ANALYSIS OF BILLS—Continued.

Amount brought forward .....	\$570 36	
Book case .....	23 44	
Sundries .....	115 10	
	<hr/>	\$708 90
Printing annual report .....		72 00
Medical services .....		605 50
Bacteriological Dept. ....		171 64
Telephone .....		106 24
Lowell Hospital .....		737 42
Taking cultures .....		508 00
Washing houses for Tuberculosis .....		27 62
Plmbing Commisson .....		15 00
		<hr/>
		\$2,952 32

*Yard.*

Hay .....	\$	773 65
Corn and meal .....		140 79
Oats .....		2,542 29
Straw and shorts .....		148 55
Sundries .....		1,045 28
New horses .....		595 00
Use of horses .....		154 25
New wagons .....		135 00
Repairing wagons .....		61 30
Repairing harnesses .....		37 60
New harnesses .....		195 85
Hardware .....		42 08
Telephone .....		18 75
Cremator .....		462 44
Veterinary .....		31 35
Dentistry work .....		1 00
Water Dept. ....		36 79
West Sixth Street dump .....		16 72
New wagon wheels .....		154 46
Electric lights .....		13 14
		<hr/>
		\$6,606 29

## INCOME 1902.

Transferred to general appropriations.

Sale of swill .....	\$3,083 72
Swill permits .....	161 00
Sale of paper .....	37 50
Use of bill boards .....	40 00
Old iron .....	6 12
Cremator ashes .....	6 50
Smallpox, Newburyport.....	466 32
Smallpox, State.....	1,546 01
Smallpox, Dracut .....	98 70
Smallpox, State.....	658 00

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Total ..... \$6,103 87

Total to General Fund 1902.....	\$6,103 87
Total to General Fund 1901.....	4,585 26
Total to General Fund 1900.....	3,647 03
Total to General Fund 1899.....	3,796 05

## SUMMARY.

*Office.*

	Expenditures.	Appropriations.	Balance.	Deficit.
Salaries of Board..	\$1,500 00			
Salary of Dr. Smith	600 00			
Pay Rolls, Office..	6,688 00			
	<hr/>			
	\$8,788 00	\$8,831 00	\$43 00	
Bills .....	2,952 32	3 011 46	59 14	

*Yard.*

Pay Rolls .....	\$27 640 38	\$26 800 00	\$840 38
Bills .....	6 606 29	6 606 29	

*Smallpox.*

Total cost .....	\$6 626 20	\$6 626 20
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## COST OF HEALTH DEPARTMENT FOR THE YEAR 1902.

Expenditures.		Appropriations.	
Salaries of Board.	\$1 500 00	Office, salaries . . .	\$10 931 00
Salary of Bacteri-	.	Office, sundries . .	3,011 46
ologist . . . . .	600 00	Smallpox . . . . .	6,626 20
Pay Rolls, Office .	8,788 00	Yard, labor . . . . .	27,640 38
Pay Rolls, Yard . .	27,640 38	Yard, sundries . . .	6,606 29
Bills, Smallpox . .	6,626 20		
Bills, Office . . . .	2,952 32		
Bills, Yard . . . . .	6,606 29		
	<hr/>		<hr/>
	\$54,713 19		
Balance to Gener-			
al Fund . . . . .	102 14		
	<hr/>		
	\$54,815 33		\$54,815 33

## STABLE AND YARD.

Our horses are now well housed in the Street stables directly across Broadway from our yard, and the increased comfort to the horses is supplemented by the decreased expenditure required for their care.

Our sheds in which they were formerly housed have been converted into sheds for the covering of our wagons and sleds, which will extend their usefulness materially.

At the present writing we have and own twenty-seven horses, having bought four new horses for \$595.00, and we hire one at 75 cents per day.

We have built four double ash carts, at a cost of \$600.00 and two double ash sleds at \$180, and these additions were not provided for by our appropriation, but had to be saved by economy, and taking into account the high prices ruling during the year for hay, grain and coal, and the fact that the total cost of the year was kept within the amount expended during 1901 for similar purposes, the showing is very gratifying and satisfactory.

Following is a schedule of the property in control of the Board of Health:—

HORSES.	VALUE.
1. Bay Horse, "Sam", 14 yrs., 1375 lbs., fair condition .....	\$ 40 00
2. Black Horse, "Dandy," 15 yrs., 1425 lbs., fair condition .....	60 00
3. Brown Horse, "Billy," 12 yrs., 950 lbs., sound.	130 00
4. Brown Horse, "Klondike," 11 yrs., 1375 lbs., sore forward .....	25 00
5. Black Horse, "Harry," 12 yrs., 1380 lbs., sound,	90 00
6. Bay Horse, "Peter," 11 yrs., 1350 lbs., sore forward .....	25 00
7. Bay Mare, "Bridget," 11 yrs., 1325 lbs., sore forward .....	25 00
8. Bay Horse, "Jack," 10 yrs., 1400 lbs., sound..	100 00
9. Bay Mare, "Sue," 10 yrs., 1400 lbs., sore forward .....	40 00
10. Black Horse, "Major," 10 yrs., 1450 lbs., sound	120 00
11. Bay Horse, "Baldy," 14 yrs., 1560 lbs., sound..	125 00
12. Bay Horse, "Fred," 16 yrs., 1310 lbs., sound..	125 00
13. Brown Mare, "Kate," 12 yrs., 1450 lbs., sound,	100 00
14. Brown Mare, "Maggie " 15 yrs., 1300 lbs., sore forward .....	20 00
15. Bay Horse, "Duke," 16 yrs., 1100 lbs., sore forward .....	40 00
16. Sorrel Mare, "Flora," 11 yrs., 1175 lbs., sore forward .....	75 00
17. Gray Mare, "Grace," 10 yrs., 1350 lbs., sound..	140 00
18. Black Horse, "Nigger," 11 yrs., 1450 lbs., heaves,	100 00
19. Bay Horse, "Joe," 11 yrs., 1500 lbs., sound....	140 00
20. Gray Mare, "Mollie," 12 yrs., 1440 lbs., sound..	120 00
21. Bay Mare, "Helen," 7 yrs., 1300 lbs., sound....	150 00
22. Bay Horse, "Ned," 9 yrs., 1300 lbs., sound....	150 00
23. Bay Horse, "Moxie," 8 yrs., 1300 lbs., sound..	125 00
24. Black Horse, "Tom," 6 yrs., 1300 lbs., sound..	150 00
25. Black Horse, "John," 7 yrs., 1390 lbs., sound..	125 00
26. Sorrel Horse, "Doctor," 15 yrs., 1200 lbs., sore forward .....	75 00

## WAGONS AND SLEDS.

1 Ambulance .....	\$175 00
1 Hospital wagon .....	25 00
4 Double ash carts at \$50 .....	200 00
4 New double ash carts .....	500 00
6 Single ash carts at \$50 .....	300 00
4 Double ash sleds at \$70 .....	280 00
2 New double ash sleds at \$100 .....	200 00
12 Single ash sleds at \$50 .....	700 00
1 Double swill wagon .....	100 00
10 Single swill wagons at \$50 .....	500 00
1 Coupe .....	25 00
2 Paper wagons .....	40 00
2 Sleighs .....	25 00
2 Pungs .....	35 00
1 Concord wagon .....	65 00
2 Moyer buggies .....	135 00
1 Goddard buggy .....	100 00
1 Covered sleigh .....	50 00

## HARNESSES AND ROBES.

1 Set double harnesses for ambulance ....	
1 Set single harness for ambulance .....	
14 Single harnesses at \$20 .....	\$280 00
8 Double harnesses at \$30 .....	240 00
28 Halters .....	6 00
2 Horse covers .....	4 00
2 Wolf robes .....	1 50
2 Woolen lap robes .....	36 00
28 Baker stable blankets .....	110 00
5 Street blankets .....	16 00
1 Rubber lap robe .....	2 00
5 Surcingles .....	2 50
24 Curry combs and brushes .....	20 00
10 Canvas covers for ash carts .....	20 00
12 Mane brushes .....	3 00
Amount carried forward .....	<hr/> \$741 00

Amount brought forward .....	\$741 00
1 Large canvas .....	2 00
2 Sponges .....	50
1 Extra heavy saddle .....	20 00
13 Collars .....	50 00
9 Collar pads .....	4 50
3 Buffalo robes .....	36 00
9 Harness pads .....	1 00
8 Zinc pads .....	1 00
1 Sheepskin .....	2 00
4 Sets reins .....	5 00
5 Trace girts .....	2 00
6 Shaft lugs .....	2 00
4 Sets hold-back straps .....	2 00
4 Saddle girts .....	2 00
5 Summer blankets .....	3 00
29 Stall straps .....	7 00
17 String bells .....	12 00
6 Light harnesses .....	200 00
	<hr/>
	\$1,093 00

## SUMMARY.

Horses .....	\$2,415 00
Wagons and sleds .....	3,455 00
Harnesses and robes .....	1,093 00
Miscellaneous .....	200 00
Carpenter Shop .....	300 00
Blacksmith Shop .....	350 00
Small-pox Hospital .....	500 00
Cremator .....	200 00
	<hr/>
	\$8,513 00



In order to study the expenditures of the Health Department satisfactorily and impartially, the rules which apply in domestic economy should be followed. A man with a certain income, if he be wise, gages his expenditures in accordance with his resources or income. With an increase in his income and without any increase in his family, he is justified in increasing his expenses; with an increase in his family and no increase in his income, he must go without many things or else run in debt. When his income grows, his condition and general environment warrant him, whether with or without an increase in the number of his family, in an increase in the family expenses. And the same rule might apply in the conduct of a business enterprise or the national, state or municipal expenditure.

Therefore, a department expense ought not to exceed the increase in population, unless there might be an increase in the visible wealth brought out by the Assessors' valuations.

The City of Lowell, for the last nine years, has been fairly prosperous, and while it is rarely that the average citizen examines or studies any statistical table, it seems to be the only method by which we can determine whether the department is tending towards an economical or extravagant distribution of the City's money. The following table has, therefore, been prepared:—

Year.	Population.	Expenditures.	Revenue.	Net Cost.	City's Valuation.	Taxation Per Capita.
1894	83,026	1 57,073 73 46,324 04 45,587 11 48,551 84	318 43	56,755 30	69,091,536	.68
1895	84,359		570 80	45,753 24	68,885,732	.54
1896	85,700		265 57	45,321 54	69,910,472	.53
1897	87,000		2,369 99	46,181 85	70,389,280	.53
1898	87,000	2 41,026 78 40,830 23 46,266 11 46,673 41	3,229 02	37,779 76	70,977,303	.43
1899	90,114		3,796 05	37,034 18	71,255,587	.41
1900	94,969		3,647 03	42,619 08	71,529,515	.44
1901	94,969		4,585 26	42,088 15	71,674,588	.44
1902	99,574	3 54,815 33	6,103 87	48,711 46	71,903,757	.48

1. Smallpox and Swill Cremation, \$12,708 25.
2. Smallpox, \$4,739 67.
3. Smallpox, \$6,626 20.

Notwithstanding an increase in the population of 16,548 and an increase in valuation of \$1,812,221, the expenditures of the Health Department have decreased within the last nine years from .68 to .48 per capita of population. The showing made by the above table is very satisfactory and demonstrates clearly that a continuous effort has been made to do the most possible towards providing for the health and comfort of the citizens without increasing the burden of expense and taxation.

During the time under review, by the transfer of corporation property to private ownership, a very large area has been added to the work of the department scavengers. The population has increased during the same period 10% while the number of men or teams employed has not increased in proportion. Still, we have succeeded in keeping the horses, wagons and service in such condition as to meet the additional requirements, without complaint, unless it be that a more frequent collection of swill ought to be made, which we are unable to do without a larger appropriation.

The proposition to transfer the collection of ashes and garbage to the Street Department is of very ancient origin and has little, if anything, to commend it. It is not true that the service can be more economically performed by them, as it is in the present or has been in the past.

We have no desire to criticise another department of the City, but the influence members of the Council exercise in the matter of employment, and the fact that for the last nine years the expense of the collection has not increased in the Health Department, are good reasons why it should remain where it is at present. An ideal Street Department might collect ashes as cheaply but no cheaper, than an ideal Health Department.

There is not a city in Massachusetts that collects its ashes and swill at so little cost as Lowell.

The City of Lowell has now a well organized Health Department. Excepting for a lack of a contagious hospital and disinfecting plant, the department is well equipped with all means for the prompt diagnosis and registration of all dangerous diseases, and for the prevention of their spread. The new plumbing of the City is all inspected, tested and recorded; a very large part of the old plumbing has been removed; all the City has received a house to house inspection; most of the privy vaults have been removed; ashes and garbage are well collected, even in the suburban parts of the city; the market refuse is cremated and the alleys and dumps are kept as sightly as the appropriation granted will permit.

The maintenance of the health of the City is as important as the lighting of its streets or the support of its paupers, and costs much less money than either.

It is hardly two months since an experiment was made towards reducing the expense of collecting ashes, owing to an almost exhausted appropriation for that purpose, and the result was such a volume of protest as demonstrated conclusively that the householders believed they were entitled to the necessary appropriation to perform such work regularly.

The estimate presented to the Committee on Appropriations for the year 1903 has been prepared with the fact in view that the City will miss the amount cut off by the citizens through their vote for no-license, and unless we are visited by our small-pox neighbors, it will be enough to pull us through the year, without luxuries, and to some extent absolute necessities.

In conclusion, we wish to express to the force under our direction and control, the testimony that during a very busy year it has rendered cheerful, intelligent and continuous service.

Respectfully submitted.

GUY HOLBROOK, M. D., *Chairman.*

JOHN H. MCGUINNESS,

WM. B. JACKSON,

*Board of Health.*

TABLE SHOWING RAINFALL IN INCHES BY MONTHS FOR TWENTY-FIVE YEARS, 1878-1902.

Year.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1878.....	5.279	5.310	4.354	8.139	0.587	3.048	2.186	10.760	0.887	5.383	6.713	5.923	55.575
1879.....	2.475	3.762	5.013	4.030	2.279	5.709	4.378	6.176	2.167	1.434	3.364	4.465	45.262
1880.....	4.379	3.944	3.005	2.375	2.676	1.792	6.518	3.156	1.529	2.823	1.841	2.581	36.519
1881.....	5.338	3.151	7.210	1.855	4.274	4.900	2.406	1.731	2.730	1.962	4.282	4.253	44.182
1882.....	4.527	5.773	3.019	1.674	4.904	2.789	1.677	0.984	7.313	2.312	1.011	2.027	38.010
1883.....	2.923	3.405	1.885	1.895	4.640	2.036	3.583	0.900	1.487	5.292	1.730	2.623	32.418
1884.....	4.944	5.703	5.013	4.110	3.684	3.064	3.198	3.977	0.924	1.945	2.328	5.149	44.039
1885.....	4.856	4.095	1.022	3.606	3.589	4.293	6.026	6.098	1.581	4.841	5.183	2.811	48.001
1886.....	6.765	6.535	3.388	1.966	3.587	1.879	3.512	3.128	3.963	2.781	4.901	4.444	46.829
1887.....	5.720	5.182	4.738	4.046	1.644	2.608	5.425	10.491	2.228	3.116	3.270	4.547	53.445
1888.....	4.661	4.307	6.519	3.782	3.890	2.809	3.057	4.837	7.966	6.780	5.982	5.395	59.915
1889.....	5.037	1.710	1.938	3.830	3.889	2.592	6.102	3.979	3.266	4.268	6.929	3.366	46.756
1890.....	2.766	3.767	6.893	1.987	5.669	3.530	3.447	4.856	4.457	7.705	1.584	4.466	51.007
1891.....	7.041	3.840	5.953	3.564	2.289	3.659	2.969	1.966	1.807	2.926	1.913	3.204	41.131
1892.....	5.389	2.742	2.643	0.628	5.861	4.444	2.321	4.304	1.973	1.378	5.829	1.106	38.618
1893.....	2.392	7.703	2.439	2.946	4.900	2.414	2.696	3.944	2.293	3.825	1.933	5.400	42.945
1894.....	3.349	3.502	1.268	3.757	4.359	0.372	2.998	0.925	3.027	3.461	3.519	3.838	34.375
1895.....	3.306	1.471	2.676	4.569	1.782	2.631	2.659	2.017	2.230	6.674	8.165	3.172	41.332
1896.....	2.243	4.649	6.310	1.335	2.316	2.683	3.786	2.759	9.066	2.995	3.023	1.126	42.291
1897.....	4.351	2.958	4.146	2.248	4.945	6.106	4.619	5.630	3.037	0.592	6.487	5.320	50.439
1898.....	8.124	3.457	1.652	5.201	3.053	3.649	2.930	8.226	1.970	6.846	6.447	2.744	54.289
1899.....	3.690	5.017	7.950	1.500	2.100	2.713	4.116	2.111	3.663	1.987	2.714	1.683	39.244
1900.....	5.451	10.119	6.566	2.156	3.785	2.710	2.648	3.730	4.363	3.326	6.181	3.033	54.008
1901.....	1.720	1.056	5.756	10.567	7.678	1.489	4.776	3.297	3.282	3.434	2.792	8.553	54.370
1902.....	2.268	6.165	5.281	5.475	2.366	2.107	3.563	5.157	6.29.	5.288	0.856	6.294	51.110





ANNUAL REPORT

OF THE

SUPERINTENDENT OF STREETS

OF THE

CITY OF LOWELL

FOR THE YEAR 1902.



LOWELL, MASS.  
PRESS OF CHAS. E. ROBINSON  
1903.



# STREET DEPARTMENT.

## ORGANIZATION FOR 1902.

---

LAFOREST BEALS, . . . . Superintendent.

---

Assistant Superintendents, GEORGE W. HARTWELL, Streets.

ETHER S. FOSS, Sewers.

Inspector of Sewers, SAMUEL D. BUTTERWORTH,

Bookkeeper, FRANKLIN T. WILSON.

---

Clerk, CLARENCE H. RAYMOND.

---

City Engineer, GEORGE BOWERS,

Assistant Engineers, WILLIAM A. FAVOR, Streets.

FREDERICK A. FARNHAM, Sewers.

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Street Committee, Alderman J. H. CARMICHAEL, Chairman.

“ L. A. DERBY,

Councilman CECIL ADAMS,

“ M. D. TAYLOR,

“ A. F. GRANT,

“ GEORGE ROCHE, .

“ J. A. LEGARE.

Sewer Committee, Alderman W. E. BADGER, Chairman.

“ JAMES O'SULLIVAN,

“ CYRUS BARTON.

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## REPORT.

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*To His Honor, the Mayor, and Gentlemen of  
the City Council of the City of Lowell:*

In accordance with the requirements of the City Ordinances, I hereby most respectfully submit the following report of the several departments under my charge for the year ending December 31, 1902.

LAFORREST BEALS,

*Superintendent of Streets.*

## SPECIAL APPROPRIATIONS STREET DEPARTMENT.

NAME OF APPROPRIATION.	Bal. Cr. Jan. 1, 1902.	Appropriation, 1902.	Receipts.	Total Receipts.	Expended	Trans. to Gen. Treas. Fund.	Bal. Cr. Jan. 1, 1903.
Macadamizing Nesmith St., etc.....	\$ 6491 70	.....	\$12 20	6503 90	\$ 1930 48	\$ 4573 42	.....
" Gibson St.....	1851 29	.....	4 00	1855 29	611 95	1243 34	.....
" Canton St.....	1521 03	.....	3 50	1524 53	861 26	663 27	.....
" Chapel St., etc.....	4169 80	.....	.....	4169 80	1541 85	2627 95	.....
" Ames & Watson Sts	.....	.....	.....	2236 69	1992 11	244 58	.....
" Agawam St.....	\$ 4243 34	.....	.....	4243 34	3589 75	653 59	.....
Smooth Paving Broadway, etc.....	53416 06	.....	459 90	53,875 96	53,838 98	36 98	.....
" Kirk St., etc.....	.....	38,950 00	.....	38,950 00	37,069 85	1880 15	.....
" Pleasant St., etc.....	.....	23,155 00	.....	23,155 00	16,712 08	.....	\$ 6442 92
Paving Arch St.....	426 00	.....	.....	426 00	426 00	.....	.....
Changing Line Merrimack St.....	531 00	.....	.....	531 00	531 00	.....	.....
Extension B St.....	.....	3300 00	.....	3300 00	3186 64	113 36	.....
Repairing Central Bridge.....	.....	2500 00	.....	2500 00	213 54	.....	2286 46
Widening Parker St.....	.....	4850 00	.....	4850 00	3323 26	.....	1526 74
	\$68,406 88	\$79,235 03	\$479 60	148,121 51	\$125,828 75	\$12,036 64	\$10,256 12

## ANNUAL APPROPRIATION—STREET DEPARTMENT.

NAME OF APPROPRIATION.	Appropriation.	Receipts.	Total Receipts.	Expenditures.	Bal. Gen. Treas. Fund.
Salaries .....	\$ 3900 00	.....	\$ 3900 00	\$ 3900 00	.....
Yard Labor .....	12,000 00	\$ 658 01	12,658 01	10,798 39	\$ 1859 62
Care of Streets and Boulevard .....	91,000 00	707 79	91,707 79	85,943 29	5764 50
Sundries .....	45,250 00	4217 29	49,467 29	49,145 59	321 70
	\$ 152,150 00	\$ 5583 09	\$ 157,733 09	\$ 149,787 27	\$ 7945 82

## PERSONAL PROPERTY.

Schedule of Personal Property belonging to the  
Street Department, December 31, 1902.

2 Machine Augers.....	\$ 1 00
2 Adzes.....	1 00
42 Blankets .....	84 00
42 Blankets .....	84 00
1 Bridge Auger .....	50
68 Curry Combs .....	17 00
30 Horse Brushes .....	15 00
3 Clocks .....	3 00
5 Coal Hods .....	2 50
1 Pair Climbing Spurs .....	1 25
4 Coal Stoves.....	13 00
37 Old Collars.....	50 00
3 Hand Rollers .....	15 00
4 Sets Dump Cart Harnesses .....	80 00
46 Lanterns .....	45 00
6 Single Sleds.....	200 00
23 Double Sleds .....	1300 00
3 Derricks .....	150 00
15 Drilling Spoons .....	3 45

---

*Amount carried forward* .....\$ 2065 70

<i>Amount brought forward</i> .....	\$ 2065 70
20 Sets Double Harnesses.....	450 00
3 Driving Sleighs .....	100 00
5 Buggies and Wagons .....	700 00
8 Driving Harnesses .....	125 00
21 Double Carts .....	2100 00
2 Double Jiggers.....	200 00
1 Double Stone Wagon.....	25 00
1 Lumber Wagon .....	150 00
1 Single Lumber Wagon .....	15 00
11 Single Dump Carts .....	1200 00
4 2-wheel Dump Carts .....	200 00
2 Single Jiggers.....	150 00
2 Fire Pails .....	8 50
53 Feed Baskets .....	38 16
250 Feet Fire Hose.....	75 00
4 Feed Boxes.....	20 00
300 Grade Stakes .....	3 00
35 Tons Hay.....	650 00
38 Draught Horses.....	6600 00
6 Driving Horses .....	900 00
2304 Bushels Oats.....	950 00
<i>Amount carried forward</i> .....	<u>\$ 16,717 36</u>



<i>Amount brought forward</i> .....	\$ 16,717 36
1 Ton Straw .....	15 00
1 Stone Drag .....	5 00
14 Street Signs .....	14 00
3 Horse Covers .....	3 00
48 Halters .....	48 00
2 Hay Cutters.....	15 00
235 Snow Shovels .....	200 00
14 Stone Forks .....	7 00
7 Sets Sighting Sticks.....	3 50
4 Iron Squares .....	3 00
10 Hay Forks .....	5 00
1 Hand Cart .....	15 00
6 Brooms for Sweeper .....	45 00
12 Snow Plows .....	120 00
5 Tape Measures.....	5 00
7 Sparrow Carts .....	20 00
7 Sparrow Barrels.....	5 00
3 2-horse Street Sweepers.....	300 00
1 Old Road Gutter Machine.....	50 00
1 Engine, Boiler, Stone Crusher and Building..	2500 00
1 Corner Stone .....	5 18
<i>Amount carried forward</i> .....	<u>\$ 20,101 04</u>

<i>Amount brought forward</i> .....	\$ 20,101 04
30 Feet Edgestone.....	9 00
1200 Feet Spruce Lumber.....	19 00
400 Feet Spruce Matched Boards .....	10 00
215 Feet $\frac{3}{4}$ -inch Rubber Hose.....	20 00
250 Feet $\frac{3}{4}$ -inch Rope .....	2 50
100 Feet $\frac{1}{2}$ -inch Rope .....	1 00
15 Gallons Paint.....	11 00
12 Gallons Harness Oil .....	6 00
3 Steam Road Rollers .....	8000 00
1 2-horse Dirt Scraper .....	20 00
3 Tons Coal.....	30 00
1 Steam Heating Boiler .....	570 00
4000 Feet Oak Plank.....	200 00
249 Pick Handles .....	30 00
32 Stone Chains .....	32 00
15 Striking Hammers.....	30 00
1 Blacksmith's Shop and Tools at Ledge.....	75 00
2 Steam Drills.....	350 00
300 Exploders.....	10 00
33 Iron Pails .....	15 00
57 Square Pointed Shovels .....	30 00

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*Amount carried forward* .....\$ 29,571 54

<i>Amount brought forward</i> .....	\$ 29,571 54
366 Feet Drill Steel .....	100 00
12 Iron Rakes.....	4 80
15 Paving Mauls.....	20 10
23 Stone Hammers.....	46 00
2 Frost Hammers .....	4 00
9 Stone Wedges .....	2 00
12 Tin Dippers .....	1 20
50 Crow Bars.....	50 00
24 Kegs Wire Spikes .....	56 00
6 Trowels.....	3 00
265 Picks.....	225 00
11 Axes .....	5 50
2 Kegs Wire Nails.....	5 50
½ Keg Cut Nails .....	1 38
10 Tool Boxes.....	100 00
3 Claw Hammers .....	1 50
71 Hand Drills .....	14 20
40 Stone Points.....	5 00
13 Hand Saws.....	6 50
171 Push Brooms .....	125 00
9 Water Pails .....	3 60
<i>Amount carried forward</i> .....	\$ 30,351 82

<i>Amount brought forward</i> .....	\$ 30,351 82
3 5-gallon Oil Cans.....	1 50
9 2-gallon Oil Cans.....	4 50
2 10-gallon Oil Cans.....	2 00
3 Derrick Chains .....	3 00
7 Spreaders and Chains.....	14 00
1 Manure Fork .....	50
3 Gallons Blue Paint.....	3 00
1 Set Light Double Harness .....	50 00
1 Pair Rubber Boots.....	3 25
116 Hoes .....	60 00
4 Frost Wedges.....	10 00
9 Wheelbarrows .....	9 00
5 Long Handle Shovels .....	3 75
2 Batteries and Wires.....	35 00
5 Spirit Levels.....	2 50
3 Cross Cut Saws .....	3 00
12 Tamping Bars .....	12 00
1 Portable Crusher.....	1500 00
1 Heavy Set Falls and Rope.....	9 00
5 Ladders .....	25 00
11 Heavy Single Harnesses .....	220 00
<i>Amount carried forward</i> .....	\$ 32,322 82

<i>Amount brought forward</i> .....		\$ 32,322 82
416 Round Pointed Shovels.....	200 00	
7 Tackle Blocks.....	7 00	
1 Set Tackle Blocks and Rope .....	3 00	
1 Georgia Pine Bridge Timber .....	10 00	
7 Dozen Lantern Globes .....	8 00	
40 Corn Brooms .....	6 00	
1 Road Gutter Machine.....	125 00	
1 Hard Pan Road Plow .....	10 00	
2 Plows.....	10 00	
1 Single Express Wagon .....	50 00	
5 Stone Hand Sets.....	2 50	
2 Plush Robes.....	2 00	
72 Feet Furring.....	1 44	
2 Cart Hooks.....	1 00	
1600 Lbs. Shorts.....	16 00	
1 Bag Salt .....	1 00	
750 Clapboards .....	16 50	
42 Hammer Handles.....	5 50	
250 Tons Crushed Stone .....	300 00	
2 Screens.....	4 00	
1 Pung.....	15 00	
<i>Amount carried forward</i> .....		\$ 33,116 76

<i>Amount brought forward</i> .....	\$ 33,116 76
1 Can Albany Grease .....	2 00
2 Lbs. Dualin.....	56
2 Sod Cutters.....	1 00
3 Boxes Green Mountain Salve.....	18 00
3 Wheel Jacks.....	12 00
22 Cart Spreaders.....	11 00
1 Pair Cart Shafts.....	8 00
½ Gallon Turpentine.....	60
1 Claw Bar.....	50
12 Cart Spokes .....	2 00
94 Feet Pine Boards .....	2 00
25 Loads Brow Stone.....	100 00
Old Flagging .....	100 00
85 Gallons Kerosene.....	13 00
22 Lbs. Soap .....	5 50
22 Sponges.....	11 00
1 Kerosene Tank .....	45 00
1 Grind Stone.....	5 00
2 Buffalo Robes.....	70 00
6 Ice Picks .....	3 00
6 Muzzles.....	6 00

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*Amount carried forward* .....\$ 33,532 92

<i>Amount brought forward</i> .....	\$ 33,532 92
17 Axe Handles.....	1 70
2 Small Oil Cans.....	50
25 Gallon Cylinder.....	7 50
2 Monkey Wrenches .....	2 00
2 Stillson Wrenches .....	1 00
24 Long Handled Snow Shovels.....	12 00
5 Drill Pumps.....	5 00
7 Forks .....	3 50
1 Chain Fall Set.....	7 00
751 Feet 1¼-inch Iron Pipe.....	10 00
Extra Plow Point .....	75
Set Runners for Express Wagon .....	10 00
4 Pinch Bars .....	4 00
<i>Total</i> .....	<u>\$ 33,597 87</u>

## STREETS MACADAMIZED.

STREETS.	BETWEEN WHAT POINTS.	SQUARE YARDS.	COST.
Agawam .....	Lawrence and Moore Sts .....	3764	\$ 3589 75
Andover .....	Fayette and Nesmith Sts.....	4400	687 43
Ames.....	Lawrence and Central Sts .....	1154	795 00
Chapel .....	Elm and Central Sts.....	1083	1541 85
Chestnut .....	High and Fayette Sts .....	525	101 90
Central .....	Hosford Square.....	500	312 01
Canton.....	Middlesex and Princeton Sts .....	1900	861 26
Common .....	Salem and Cross Sts.....	2766	971 19
Coburn .....	West Sixth and Lakeview Ave.....	4312	2248 42
Fourth .....	Bridge and Read Sts.....	1245	511 00
Gibson .....	Westford and Pine Sts.....	1059	611 95
Lawrence .....	Moore and R. R. Bridge.....	3459	881 79
Nesmith .....	East Merrimack and Rogers Sts...	3401	1115 95
Pawtucket ....	Moody and Salem Sts.....	2340	530 52
Pearl .....	Middlesex and Appleton Sts .....	587	278 53
Perry .....	Pond and Sherman Sts.....	1192	854 82
Pawtucket ....	School and Vesper Boat Club.....	1500	821 93
Queen .....	Middlesex and Branch Sts .....	1000	411 92
Rogers .....	High and Nesmith Sts.....	4060	814 53
<i>Amount carried forward .....</i>		40247	\$17941 75



## STREETS MACADAMIZED.—CONTINUED.

STREETS.	BETWEEN WHAT POINTS.	SQUARE YARDS.	COST.
	<i>Amount brought forward</i> .....	40,247	17,941 75
Read .....	First and Seventh Sts .....	5200	1031 86
School .....	Canal, Bridge and Middlesex Sts..	3153	943 13
Sherman .....	Perry and High Streets.....	432	215 17
Wamesit .....	Lawrence and Central Sts .....	1695	857 07
Whitney Ave..	Eighteenth and Beacon Sts.....	2323	980 08
Worthen .....	Kitson and Fletcher Sts.....	995	305 76
Watson .....	Lawrence and Whipple Sts.....	1273	1197 71
Garnet .....	Middlesex and Appleton Sts.....	587	199 71
<i>Total</i> .....		55,905	23,672 24

Average Cost Per Yard, 42.344

## MACADAMIZED STREETS TOP DRESSED.

STREETS.	BETWEEN WHAT POINTS.	SQUARE YARDS.	COST.
Eighteenth ...	Bridge and Beacon Sts.....	2800	\$ 542 73
Middlesex ....	Walker and Stevens Sts .....	10,450	1994 10
Westford .....	Wilder and Windsor Sts .....	4200	809 41
<i>Total</i> .....		17,450	\$ 3346 24

## STREETS GRADED.

STREETS.	LENGTH IN FT.	COST.
Aiken Avenue .....	300	\$ 22 50
Astor Street.....	335	39 81
B Street .....	620	122 09
Butman Road.....	1605	404 50
Beacon Street.....	889	84 84
*Brooks Street.....	300	14 78
Canton Street.....	78	6 25
Cornell Street.....	670	183 25
Crawford Street.....	300	21 00
Chestnut Street .....	197	35 47
Chelmsford Street .....	1675	188 00
Crescent Street .....	427	93 31
Coburn Street.....	487	191 10
Chase Street .....	300	15 50
Cabot Street .....	400	98 83
*Cross Street .....	900	14 00
Common Street .....	880	47 38
Eighteenth Street .....	326	106 71
First Street.....	1062	25 75
<i>Amount carried forward.....</i>	11751	\$1715 07

## STREETS GRADED.—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
<i>Amount brought forward</i> .....	11,751	\$1715 07
Fremont Street .....	453	95 54
Fifth Avenue .....	910	275 38
Fort Hill Avenue .....	199	15 19
Fletcher Street .....	657	110 16
Hadley Street .....	400	89 00
Holyrood Avenue .....	120	10 37
Hall Street.....	185	24 00
Inland Street .....	92	5 00
Laurel Street .....	589	124 00
Lawrence Street.....	100	10 32
Liberty Street .....	732	12 44
Marginal Street .....	709	330 25
Mt. Hope Street.....	450	154 32
Mammoth Road.....	1437	269 94
Meadow Road.....	1300	145 00
Methuen Street .....	1430	333 66
Middlesex Street.....	2850	465 30
Newhall Street.....	324	10 97
<i>Amount carried forward</i> .....	24,688	\$4195 91

## STREETS GRADED.—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
<i>Amount brought forward</i> .....	24,688	\$4195 91
Parker Street.....	304	47 78
Plain Street.....	1670	433 88
Powell Street .....	1525	243 89
Phillips Street.....	640	80 62
Pine Street .....	975	68 86
*Rock Street .....	1200	31 57
Richards Street .....	600	195 02
Suffolk Street .....	180	13 47
Spaulding Street. ....	250	29 75
Smith Street.....	725	70 75
Stevens Street.....	380	234 63
School Street .....	563	28 69
Starbird Street.....	300	176 38
*School Street.....	375	14 24
*Schaffer Street .....	525	12 12
Tenth Street.....	3041	1656 03
Totman Street.....	600	109 19
Tremont Street.....	510	32 87
<i>Amount carried forward</i> .....	39,051	\$7675 65

## STREETS GRADED.—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
<i>Amount brought forward</i> .....	39,051	\$7675 65
Varnum Street.....	850	570 41
Varnum Avenue.....	2760	1418 23
West Adams Street.....	630	215 36
Wentworth Avenue.....	1680	352 67
Willard Street.....	1070	1911 33
Watson Street .....	409	12 94
Walnut Street.....	250	109 78
Wilder Street .....	490	31 43
Walker Street.....	525	44 55
*Willie Street .....	250	10 78
<i>Total</i> .....	47,965	\$ 12,353 13

\*Graded by Smooth Paving Companies.

## STREETS LAID OUT AND ACCEPTED IN 1902.

STREETS.	LOCATION.	WIDTH IN FEET.	LENGTH IN FEET.
B .....	From Wilder St. to Stevens St..	40	633.4
Burnside .....	" Middlesex St. southerly...	40	365.6
Carter Avenue .....	" Gorham St. to Carter St..	20 & 30	466.2
Gershom Avenue..	" Moody St. to Mt. Hope St.	38	598.3
Hadley.....	" Princeton St. northerly...	40	479.5
Holden .....	" Westford St. to Princeton St .....	50	430.0
Norcross .....	From Chelmsford St. to Stevens St .....	40	1107.2
Saratoga .....	From Gorham St. to Chippewa St .....	40	636.0
Starbird.....	From Varnum Ave. to Wood- ward Ave .....	40	651.5
West Manchester..	From Main St. to N. Y., N. H. & H. R. R.....	50	148.6
			5516.3 or 1.04 miles.

Number of miles of Accepted Streets Jan. 1, 1902..... 123.92

Number of miles of Streets Accepted in 1902 ..... 1.04

Number of miles of Accepted Streets Jan. 1, 1903..... 124.96

The grade of Broadway has been re-established from Phillips Street to Walker Street.

Parker Street has been straightened and widened from Stevens Street to Pine Street.

The northerly line of Broadway has been extended from Lewis Street to Dummer Street.

## NEW SIDEWALKS BUILT IN 1902.

STREETS.	LOCATION.	LIN. FT. CORNER STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CON- CRETE.	COST OT MATERIAL.	COST OF LABOR.	TOTAL COST.
Aiken Avenue..	East Side, Cumberland Road to Hil- dredh Street.....	10.1	838.8	.....	\$ 351 47	\$ 128 32	\$ 479 79
Arch .....	Both Sides, Middlesex Street, south- erly .....	.....	325.4	.....	91 10	46 59	137 69
Astor .....	Both Sides, Fort Hill Avenue, East- erly.....	.....	120.0	38 9	66 70	22 80	89 50
Aiken .....	Both Sides, Aiken Street Bridge to Lakeview Avenue .....	.....	.7	.....	2 74	3 68	6 42
Beacon .....	Both sides, Methuen Street to Eleventh Street, where not formerly laid.....	27.9	1098.1	.....	471 14	196 84	667 98
*Bowden .....	North Side, Gorham Street to Chippe- wa Street.....	18.3	619.7	.....	266 79	115 24	382 03
Bowden .....	South Side, Gorham Street to Chip- pewa Street. ....	10.0	561.6	.....	237 75	106 08	343 83



## NEW SIDEWALKS BUILT IN 1902.—CONTINUED.

STREETS.	LOCATION.	LIN. FT. CORNER STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CON- CRETE.	COST OF MATERIAL.	COST OF LABOR.	TOTAL COST.
Broadway .....	South Side, Land of Thos. H. Elliott to Walker Street.....	25.0	581.7	.....	\$ 257 24	\$ 125 93	\$ 383 17
Burgess .....	South Side, in front premises Louis Weiler .....	.....	91.9	.....	37 68	14 63	52 31
Bridge .....	West Side, Paige Street to Merrimack Street .....	.....	50 6	.....	20 50	6 44	26 94
Broadway .....	Both Sides, School Street to Walker Street .....	55.5	229 1	.....	135 55	42 60	178 15
Charles .....	Both Sides, Central Street to Lawrence Street .....	32.9	360.9	.....	172 63	30 24	202 87
Kirk.....	Both Sides, Merrimack Street to Paige Street .....	32.3	242.0	.....	123 68	29 05	152 73
*Marion .....	East Side, Cross Street, south- erly .....	9.7	153.7	.....	70 29	21 84	92 13

## NEW SIDEWALKS- BUILT IN 1902.—CONTINUED.

STREETS.	LOCATION.	LIN. FT. CORNER STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CON- CRETE.	COST OF MATERIAL.	COST OF LABOR.	TOTAL COST.
Merrimack .....	North Side, at Junction Pawtucket Street .....	.....	84.9	.....	\$ 34 80	\$ 28 68	\$ 63 48
Merrimack .....	Both Sides, Cabot Street to Pawtucket Street .....	.....	120.0	.....	49 20	29 44	78 64
Moody .....	Both Sides, Fourth Avenue to Fifth Avenue .....	10.5	549.5	.....	233 16	114 56	347 72
Oakland .....	West Side, Walden Street to Parker Street .....	22.6	412.7 (Brick)	.....	186 16	74 71	260 87
Paige.....	North Side, Kirk Street, easter- ly .....	9.0	57.6	64.0	30 36	71 63	101 99
Paige.....	Both Sides, Kirk Street to John Street .....	19.2	370.9	.....	166 46	70 76	237 22

## NEW SIDEWALKS BUILT IN 1902.—CONTINUED.

STREETS.	LOCATION.	LN. FT. CORNER STONE.	LN. FT. SQ. YDS. EDGE- STONE.	CON- CRETE.	COST OF MATERIAL	COST OF LABOR.	TOTAL COST.
Pleasant .....	East Side, from point 100 feet north of Sherman Street, northerly .....	.....	246.3 .....	.....	\$ 100 98	\$ 29 17	\$ 130 15
Pleasant .....	West Side, Sherman Street to Rogers Street .....	.....	.....	335.9 .....	151 15	.....	151 15
*Prospect .....	Both Sides, from Central Street to end of accepted street .....	9.06	463.2 .....	228.6 .....	299 98	77 55	377 53
Ford .....	North Side, Aiken Street, easterly .....	.....	81.2 .....	.....	33 29	14 44	47 73
Ford .....	North Side, from a point 107.3 feet westerly from Cabot Street, west- erly .....	.....	56.5 .....	.....	23 16	8 96	32 12
Fort Hill Avenue	East Side, Sherman Street to land Rogers' Hall School .....	29.9	309.9 .....	69.6 .....	180 81	65 94	246 75

## NEW SIDEWALKS BUILT IN 1902.—CONTINUED.

STREETS.	LOCATION.	LIN. FT. CORNER STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CON- CRETE.	COST OF MATERIAL	COST OF LABOR.	TOTAL COST.
Hampshire .....	Both Sides, Hildreth Street to Bridge Street .....	16.2	1080.5	.....	\$ 455 16	\$ 142 61	\$ 597 77
Lakeview Ave...	North Side, at Campaw and Ottawa Streets .....	26.2	.....	.....	15 12	27 57	42 69
Lincoln .....	South Side, Tanner Street to West Street .....	63.6	1311.7	.....	569 59	232 22	801 81
*London .....	Both Sides, Tanner Street to N. Y., N. H. & H. R. R. ....	.....	1363.6	.....	559 07	166 20	725 27
Robert .....	North Side, Fifth Avenue to Sixth Avenue .....	9.7	199.4	.....	89 02	32 82	121 84
School .....	West Side, in front premises John McCue .....	.....	49.5	.....	20 29	8 25	28 54
Suffolk .....	Southeast Side, Moody Street to Bridge over Northern Canal .....	.....	.....	204.6	92 07	.....	92 07

## NEW SIDEWALKS BUILT IN 1902.—CONTINUED.

STREETS.	LOCATION.	LIN. FT. CORNER STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CON- CRETE.	COST OF MATERIAL.	COST OF LABOR.	TOTAL COST.
*Third Avenue.	North Side, Mammoth Road to White Street .....	28.8	728.6	.....	\$ 320 32	\$ 95 22	\$ 415 54
Watson .....	South Side, Lawrence Street to Whipple Street .....	20.7	363.5	.....	164 55	49 55	214 10
Westford .....	Both Sides, Loring Street to Wilder Street .....	.....	22.0	.....	16 50	8 23	24 73
<i>Total</i> .....		487.7	1315.17	877.6	\$6096 46	\$2238 79	\$ 8335 25

\* Uncompleted.

## SIDEWALKS.

## RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED.

STREETS.	LOCATION.	WHEN PASSED.	LIN. FT. EDGESTONE TO BE LAID.
Bowden .....	South Side, Gorham Street to Chippewa Street, edgestones and concrete, edgestones laid only .....	1902	.....
Bowden .....	North Side, Gorham Street to Chippewa Street, concrete .....	1902	.....
Burnside .....	Both Sides, Middlesex Street southerly 368 feet, edgestones and cinders,.....	1902	731.2
Campaw .....	Both Sides, Lakeview Avenue westerly, edgestones and cinders, North Side, about .....	1902	405.0
	South Side, " .....	.....	377.0
Ford.....	North Side, Aiken Street easterly, edgestones and concrete, edgestones laid only .....	1901	.....
Ford.....	North Side, from point 240 feet west of Aiken Street, westerly 45 feet, edgestones and cinders,.....	1902	45.0

## SIDEWALKS.

## RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED.

STREETS.	LOCATION.	WHEN PASSED.	LIN. FT. EDGESTONE TO BE LAID.
Ford .....	North Side, from point 155 feet west of Aiken Street, westerly 85 feet, edgestones and cinders.....	1902	85.0
Gershom Avenue .....	Both Sides, Mt. Hope Street to Moody Street, edgestones and cinders.....	1902	1157.2
London .....	Both Sides, Tanner Street to N. Y., N. H. & H. R. R., edgestones and cinders .....	1902	468.5
Mammoth Road .....	Both Sides, Varnum Avenue and Riverside Street to Eighth Avenue where not formerly laid, concrete nearly completed..	1902	.....
Marion.....	East Side, Cross Street southerly, edgestones and concrete, edgestones laid only .....	1901	.....
Prospect .....	Both sides, Central Street to end of accepted street, edgestones and concrete .....	1901	449.7

## SIDEWALKS.

RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED.—CONTINUED.

STREETS.	LOCATION.	WHEN PASSED.	LIN. FT. EDGESTONE TO BE LAID.
Third Avenue.....	North Side, Mammoth Road to White Street, edgestones and concrete, edgestones laid only .....	1902	.....
Twelfth .....	South Side, in front premises Kate McMahon, edgestones and concrete .....	1902	58.0



## CONCRETE SIDEWALKS REPAIRED IN 1902.

STREETS.	LOCATION.	COST.	SQ. YDS.
Adams .....	North Side, between Salem and Cross Streets .....	\$ 20 70	46.0
Agawam .....	West Side.....	8 68	19.3
Agawam .....	East Side.....	43 02	95.6
Appleton .....	North Side, between Gorham and Central Streets.....	16 60	36.9
Beech .....	West Side, from Third Street, northerly .....	12 78	28.4
Beech .....	East Side, between Third and Sixth Streets.....	45 58	101.3
Branch .....	North Side, between Loring and Walker Streets.....	3 60	8.0
Bridge .....	West Side, at No. 654.....	4 50	10.0
Broadway .....	South Side, between Suffolk and Thomas Streets .....	372 42	808.3
Broadway .....	North Side, between Suffolk and Walker Streets.....	594 55	1278.2
Central.....	South Side at No. 1002.....	4 18	9.3
Central .....	South Side, between Chapel and Wamesit Streets .....	5 62	12.5
Central .....	South Side, at Runel's Block .....	10 03	22.3
Charles .....	North Side, between Central and Lawrence Streets.....	101 16	224.8
<i>Amount carried forward .....</i>		\$1243 42	2700.9

## CONCRETE SIDEWALKS REPAIRED IN 1902.—CONTINUED.

STREETS.	LOCATION.	COST.	SQ. YDS.
	<i>Amount brought forward</i> .....	\$1243 42	2700.9
Charles .....	South Side, between Central and Lawrence Streets.....	79 33	176.3
Cushing .....	North Side (hard) .....	27 79	99.7
Dover .....	West Side, at No. 15 .....	8 46	18 8
First.....	North Side, between Read and Simpson Streets .....	32 49	72.2
Fremont .....	West Side, at Third Street.....	7 20	16.0
Garnet .....	West Side.....	12 28	27.3
Garnet .....	East Side.....	8 77	19.5
Grand.....	West Side, at Hale Street .....	16 78	37.3
Kirk.....	East Side, between Lee and Paige Streets .....	69 48	154.4
Kirk.....	West Side.....	169 20	376.0
Merrimack ....	North Side, at Pawtucket Street..	65 65	145.9
Merrimack ....	South Side, from No. 774, westerly	71 64	159.2
Merrimack ....	North Side, from Cabot Street, westerly.....	78 84	175.2
Mt. Vernon...	West Side, north of Broadway....	9 99	22.2
Mt. Vernon...	West Side, south of Broadway....	10 48	23.3
Mt. Vernon...	West Side, from Butterfield Street, southerly .....	25 20	56.0
	<i>Amount carried forward</i> .....	\$1937 00	4280.2

## CONCRETE SIDEWALKS REPAIRED IN 1902.—CONTINUED.

STREETS.	LOCATION.	COST.	SQ. YDS.
	<i>Amount brought forward</i> .....	\$1937 00	428.02
Paige .....	South Side, between John and Kirk Streets.....	132 30	294.0
Pawtucket....	East Side, at Merrimack Street...	6 70	14.9
Phillips .....	East Side, at Broadway .....	21 73	48.3
Phillips .....	West Side, at Broadway.....	18 67	41.5
Pleasant .....	East Side, from High Street to No. 22.....	43 74	97.2
Rock .....	North Side, at School Street .....	33 52	74.5
School .....	East Side, at Broadway .....	13 99	31.1
Simpson .....	West Side, at First Street .....	8 28	18.4
Stevens .....	Both Sides, north of Princeton Street .....	5 31	11.8
Suffolk .....	West Side, at Parochial School...	9 99	22.2
Third .....	North Side, between Beech and Vernon Streets.....	6 16	13.7
Thirteenth ....	South Side, between Wachusett and May Streets .....	12 10	26.9
Thorndike ....	North Side, at Hood's Laboratory .....	20 79	46.2
Wachusett ....	West Side.....	48 78	108.4
Wachusett ....	East Side.....	94 95	211.0
	<i>Amount carried forward</i> .....	\$2414 01	5340.3

## CONCRETE SIDEWALKS REPAIRED IN 1902.—CONTINUED.

STREETS.	LOCATION.	COST.	SQ. YDS.
	<i>Amount brought forward .....</i>	\$2414 01	5340.3
Westford .....	South Side, between Wilder and and Loring Streets.....	140 26	311.7
Westford .....	North Side, between Wilder and Walker Streets .....	66 37	147.5
Westford .....	North Side, between Wilder and Stevens Streets.....	39 91	88.7
	<i>Total .....</i>	\$2660 55	5882.2

## CONCRETE SIDEWALKS TOP DRESSED IN 1902.

STREETS.	LOCATION.	COST.	SQ. YDS.
Adams .....	North Side, between Salem and Cross Streets .....	\$ 71 31	237.0
Agawam .....	West Side.....	131 40	438.0
Agawam .....	East Side.....	105 96	353.2
Appleton .....	North Side, between Gorham and Central Streets.....	4 98	16.6
Beech .....	East Side, from Third Street, northerly .....	42 30	141.0
Branch.....	North Side, from Walker Street, easterly .....	92 97	309.9
Bridge .....	West Side, at No. 384.....	20 88	69.6
Bridge .....	West Side, at No. 654.....	11 79	39.3
Broadway .....	South Side, between Suffolk and Thomas Streets.....	197 76	659.2
Broadway .....	North Side, between Suffolk and Walker Streets .....	222 81	742.7
Butterfield.....	South Side, from Mt. Vernon Street, westerly.....	13 77	45.9
Charles .....	North Side.....	7 86	26.2
Charles .....	South Side.....	20 01	66.7
Cushing .....	North Side .....	32 28	107.6
<i>Amount carried forward .....</i>		\$ 976 08	3253.6

## CONCRETE SIDEWALKS TOP DRESSED IN 1902.

CONTINUED.

STREETS.	LOCATION.	COST.	SQ. YDS.
	<i>Amount brought forward</i> .....	\$ 976 08	3253.6
Dover .....	West Side, at No. 15 .....	5 64	18.8
Durant .....	West Side, from No. 77, south- erly .....	116 70	389.0
Dutton .....	West Side, at No. 503.....	15 81	52.7
First.....	North Side, between Read and Simpson Streets .....	137 07	456.9
Fletcher .....	East Side, from Broadway, south- erly .....	7 56	25.2
Fletcher .....	East Side, from Broadway, north- erly .....	6 06	20.2
Fletcher .....	West Side, at Broadway.....	2 82	9.4
Fremont .....	West Side, at Third Street .....	6 78	22.6
Fremont .....	East Side, from Sixth Street northerly .....	36 72	122.4
Garnet .....	West Side.....	17 64	58.8
Garnet .....	East Side.....	17 46	58.2
Gorham .....	East Side, from No. 856, south- erly .....	174 52	570.4
Grand .....	West Side, at Hale Street .....	11 19	37.3
Highland .....	South Side, at No. 48.....	15 15	50.5
	<i>Amount carried forward</i> .....	\$1547 20	5146.0

## CONCRETE SIDEWALKS TOP DRESSED IN 1902.

CONTINUED.

STREETS.	LOCATION.	COST.	SQ. YDS.
	<i>Amount brought forward</i> .....	\$1547 20	5146.0
Hurd .....	South Side, at First Universalist Church .....	24 39	81 3
Kirk .....	West Side.....	64 41	214 7
Lakeview Ave.	North Side, at No. 27 .....	17 46	58 2
Lawrence.....	West Side, from No. 312,southerly	29 16	97.2
Lee .....	North Side, at Kirk Street .....	2 13	7.1
Mansur .....	South Side, at No. 91 .....	21 06	70.2
Merrimack ....	South Side, from No. 774, west- erly .....	98 49	328 3
Mill .....	North Side .....	41 79	139.3
Moore .....	South Side, from Meadowcroft Street, easterly.....	15 24	50.8
Mt. Vernon ...	West Side, at Broadway.....	5 58	18.6
Mt. Vernon...	West Side, from Butterfield Street, southerly .....	2 10	7.0
Nesmith .....	East Side, at Chestnut Street ....	6 18	20.6
Nichols .....	Both Sides, near Westford Street.	34 41	114.7
Paige.....	South Side, between John and Kirk Streets .....	4 83	16.1
	<i>Amount carried forward</i> .....	\$1914 43	6370.2

## CONCRETE SIDEWALKS TOP DRESSED IN 1902.

CONTINUED.

STREETS.	LOCATION.	COST.	SQ. YDS.
	<i>Amount brought forward</i> .....	\$1914 43	6370.2
Phillips .....	West Side, near Broadway .....	1 77	5.9
Pleasant .....	East Side, between No. 14 and No. 22.....	10 65	35.5
Read .....	West Side, between First and Second Streets.....	44 21	140.7
Rock .....	North Side (hard) .....	58 45	83.5
Simpson .....	East Side.....	30 16	100.6
Stevens .....	West Side, at No. 215.....	24 69	82.3
Suffolk .....	West Side, between Cross and Market Streets.....	18 00	60.0
Third .....	North Side, between Beech and Vernon Streets.....	66 66	222.2
Third .....	South Side, from No. 133 east- erly .....	21 24	70.8
Thorndike ....	West Side, at Hood's Labora- tory .....	15 75	22.5
Thorndike.....	West Side, at Davis Square .....	11 82	39.4
Twelfth .....	North Side, at Wachusett Street..	13 50	45.0
Wachusett ....	East Side.....	44 67	148.9
Wachusett ....	West Side.....	71 49	238.3
	<i>Amount carried forward</i> .....	\$2347 49	7665.8



## CONCRETE SIDEWALKS TOP DRESSED IN 1902.

CONTINUED.

STREETS.	LOCATION.	COST.	SQ. YDS.
	<i>Amount brought forward .....</i>	\$2347 49	7665.8
Westford .....	South Side, between Wilder and Loring Streets.....	69 30	231.0
Westford .....	North Side, between Wilder and Walker Streets.....	35 55	118.5
Westford .....	North Side, between Wilder and Stevens Streets.....	31 44	104.8
Worthen .....	Both Sides, at Canal .....	3 18	10.6
Worthen .....	Both Sides, between Market and Merrimack Streets .....	12 60	18.0
<i>Total .....</i>		\$2499 56	8148.7

## NEW CINDER SIDEWALKS BUILT IN 1902.

STREETS.	LENGTH IN FEET.	COST.
Andrews Street .....	210	\$8 54
Aiken Avenue.....	1915	104 12
Astor Street .....	70	6 38
Ardell Street.....	100	5 69
Butman Road .....	1205	74 37
Boylston Street.....	50	3 26
Blossom Street.....	415	21 76
Beacon Street .....	4215	288 51
Barrington Street.....	165	5 12
B Street .....	1500	154 41
Billerica Street.....	675	46 68
Bourne Street .....	700	56 68
Crowley Street .....	225	8 13
Coburn Avenue .....	2000	145 00
Chapel Street .....	160	7 18
Concord Street.....	50	2 21
Chase Street.....	600	14 49
Cumberland Road .....	540	37 71
Chelmsford Street .....	1825	132 28
<i>Amount carried forward.....</i>	16,620	\$1122 52

## NEW CINDER SIDEWALKS BUILT IN 1902.—CONTINUED.

STREETS.	LENGTH IN FEET.	COST.
<i>Amount brought forward</i> .....	16,620	\$ 1122 52
Dane Street .....	220	8 82
Durant Street .....	735	44 47
Dalton .....	606	38 75
Ennell Street .....	796	69 30
East Merrimack Street .....	510	24 25
Exeter Street .....	570	38 07
Eleventh Street .....	795	52 68
Eighth Avenue .....	75	5 06
Eaton Street .....	150	11 88
First Street .....	1045	98 89
Fremont Street .....	971	69 57
Fourth Avenue .....	1298	49 62
Fort Hill Avenue .....	336	13 16
Falmouth Street .....	66	4 68
Gorham Street .....	4512	253 10
Grand Street .....	200	3 90
Grove Street .....	300	15 41
High Street .....	330	12 53
<i>Amount carried forward</i> .....	30,135	\$ 1936 56

## NEW CINDER SIDEWALKS BUILT IN 1902—CONTINUED.

STREETS.	LENGTH IN FEET.	COST.
<i>Amount brought forward</i> .....	30,135	\$ 1936 66
Hovey Street .....	75	2 75
Hale Street .....	1179	38 44
Highland Avenue .....	485	24 38
Horn Street .....	282	7 68
Hampshire Street .....	1355	70 53
Hudson Street .....	200	4 41
Ina Street .....	534	21 96
Jewett Street .....	2040	72 39
Jeness Street .....	390	26 62
Lincoln Street .....	1556	83 75
London Street .....	2640	145 32
Ludlam Street .....	1797	92 12
Lakeview Avenue .....	4055	243 77
Lane Street .....	345	12 57
Leverett Street .....	990	46 13
Laurel Street .....	60	2 34
Lyons Street .....	390	14 06
Livingston Street .....	780	26 81
<i>Amount carried forward</i> .....	49,288	\$ 2872 69

## NEW CINDER SIDEWALKS BUILT IN 1902.—CONTINUED.

STREETS.	LENGTH IN FEET.	COST.
<i>Amount brought forward</i> .....	49,288	\$2872 69
Lawrence Street .....	500	17 15
Main Street.....	789	44 21
Merrill Street .....	120	3 03
Maple Street.....	186	8 18
Moody Street .....	1793	72 50
Mt. Hope Street .....	830	95 86
Mammoth Road .....	3319	150 57
Meadowcroft Street .....	2298	111 71
Middlesex Street.....	160	3 66
Moore Street .....	375	14 62
Marion Street .....	165	6 50
Otis Street .....	243	11 38
Parker Street .....	225	20 15
Plain Street.....	955	56 73
Porter Street.....	204	11 37
Phillips Street.....	144	3 75
Payton Street .....	444	29 68
Pine Street .....	303	24 30
<i>Amount brought forward</i> .....	62,341	\$3558 04

## NEW CINDER SIDEWALKS BUILT IN 1902.—CONTINUED.

STREETS.	LENGTH IN FEET.	COST.
<i>Amount brought forward</i> .....	62,341	\$3558 04
Pihl Street .....	475	36 50
Pawtucket Street .....	1700	134 82
Quebec Street.....	540	23 44
Rogers Street .....	858	31 07
Riverside Street .....	222	16 28
Richardson Street .....	545	76 83
Rolfe Street .....	1824	75 00
Suffolk Street .....	710	19 88
Stevens Street.....	1305	241 63
Smith Street.....	606	30 75
Sutherland Street .....	1653	73 12
Sherman Street .....	600	13 32
Swift Street.....	420	13 38
Stanley Street.....	625	36 96
Sidney Street .....	600	18 27
Starbird Street.....	63	4 68
Tenth Street.....	4132	266 39
Third Street.....	340	24 57
<i>Amount carried forward</i> .....	79,559	\$4694 93

## NEW CINDER SIDEWALKS BUILT IN 1902.—CONTINUED.

STREETS.	LENGTH IN FEET.	COST.
<i>Amount brought forward</i> .....	79,559	\$ 4694 93
Third Avenue.....	800	46 19
Thorndike Street .....	918	44 00
Victoria Street .....	1020	58 75
Varnum Street .....	1390	52 40
Vernon Street.....	990	69 21
Varnum Avenue .....	400	21 50
West Sixth Street.....	2208	181 39
West Street .....	636	32 43
West London Street .....	320	20 31
West Forrest Street.....	186	12 10
Washington Street.....	1627	60 50
White Street.....	305	17 78
Wentworth Avenue.....	160	11 00
Watson Street.....	400	17 00
Walker Street .....	135	5 40
Whipple Street.....	933	39 50
Woodward Avenue.....	275	11 72
<i>Total</i> .....	92,262	\$ 5396 11

## EDGESTONES RESET.

STREETS.	LENGTH IN FEET.	COST.
Andover Street.....	50	\$ 9 63
Appleton Street .....	40	9 60
Agawam Street.....	940	54 36
Aiken Street.....	1002	97 18
Broadway .....	2787	402 87
Beech Street.....	240	24 21
Butterfield Street .....	72	9 29
Bridge Street .....	50	2 37
Beacon Street.....	125	20 25
Central Street.....	88	16 23
Charles Street.....	972	197 60
Dover Street.....	50	8 88
Eleventh Street .....	131	21 37
First Street .....	118	13 85
Fremont Street.....	120	11 63
Fort Hill Avenue.....	60	11 37
Hovey Street.....	327	40 08
Holyrood Avenue .....	686	65 43
Humphrey Street.....	304	39 53
<i>Amount carried forward.....</i>	8162	\$ 1057 73



## EDGESTONES RESET.—CONTINUED.

STREETS.	LENGTH IN FEET.	COST.
<i>Amount brought forward</i> .....	8162	\$1055 73
Kirk Street .....	767	234 55
Laurel Street.....	75	3 15
Lakeview Avenue.....	293	15 75
Merrimack Street.....	1659	305 14
Mt. Vernon Street .....	70	9 27
Market Street .....	60	6 50
New Moody Street.....	75	7 00
Pleasant Street.....	620	67 32
Paige Street .....	455	138 46
Pawtucket Street .....	110	21 94
Pearl Street.....	179	14 39
Powell Street .....	85	11 25
Phillips Street.....	168	53 57
Stevens Street.....	50	5 18
Stackpole Street .....	60	7 00
Tyler Street.....	10	3 38
Twelfth Street.....	92	5 53
Varnum Street .....	600	62 25
<i>Amount carried forward</i> .....	13,590	\$2027 36

## EDGESTONES RESET.—CONTINUED.

STREETS.	LENGTH IN FEET.	COST.
<i>Amount brought forward</i> .....	13,590	\$202 73
Wentworth Avenue.....	721	73 44
Westford Street.....	1330	153 81
Worthen Street .....	25	5 91
Wachusett Street.....	1030	152 21
<i>Total</i> .....	16,696	\$2412 73

## STREETS CLEANED IN 1902.

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A .....	\$ 49 62
Abbott .....	5 29
Adams .....	141 60
Agawam .....	12 11
Aiken .....	41 59
Aiken Avenue.....	92 98
Albert .....	14 05
Albion.....	7 33
Alder .....	19 24
Ames .....	11 99
Anderson .....	1 04
Andover .....	154 15
Andrews .....	31 72
Anne .....	26 48
Appleton .....	160 66
Arch.....	11 07
Ardell .....	7 82
Arlington.....	22 90
Arthur.....	2 27
Ash .....	12 79
<hr/>	
<i>Amount brought forward .....</i>	<i>\$ 826 70</i>

<i>Amount brought forward</i> .....	\$ 826 70
Astor .....	4 11
Auburn .....	7 81
Austin .....	9 20
Avon .....	6 81
Belmont .....	8 46
B .....	29 98
Burgess .....	10 33
Barclay .....	11 64
Barrington .....	7 91
Bartlett .....	33 05
Bassett .....	1 04
Beacon .....	178 33
Beech .....	37 96
Bellevue .....	11 42
Belmont Avenue .....	23 61
Billings .....	65 38
Blodgett .....	5 05
Blossom .....	14 37
Bowers .....	37 30
Boyleston .....	5 72
Boynton .....	6 07

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*Amount carried forward* .....\$ 1,342 25

<i>Amount brought forward</i> .....	\$1342 45
Branch .....	103 42
Bridge.....	214 41
Broadway.....	114 97
Brooks .....	7 72
Butterfield .....	32 26
Bourne .....	12 27
Burt.....	10 21
Belrose Avenue.....	1 85
Butler Avenue .....	8 26
Bennett .....	1 85
Brown .....	6 39
Baldwin .....	16 50
Berkley Avenue.....	7 63
Bowden .....	7 82
C .....	40 73
Cabot .....	60 89
Cady.....	7 62
Cambridge .....	13 57
Canton .....	20 71
Carlisle.....	29 49
Carlton.....	8 95
<i>Amount carried forward</i> .....	<u>\$2069 77</u>

<i>Amount brought forward</i> .....	\$2069 77
Carter .....	2 05
Cedar .....	3 67
Central .....	72 02
Centre.....	5 58
Chambers.....	16 51
Chapel .....	30 41
Charles.....	19 70
Chase .....	2 57
Cheever .....	39 59
Chelmsford .....	410 37
Chester.....	10 71
Chestnut .....	41 43
Church .....	151 80
Claire .....	34 65
Clark .....	12 50
Coburn .....	51 63
Colonial Avenue .....	35 31
Columbus Avenue .....	10 99
Common .....	41 74
Concord .....	97 96
Congress .....	15 98
<i>Amount carried forward</i> .....	<u>\$3176 94</u>

<i>Amount brought forward</i> .....	\$3176 94
Coolidge .....	11 56
Coral .....	24 38
Connell.....	57 70
Corner.....	4 90
Cosgrove .....	15 63
Court .....	2 99
Crescent .....	1 96
Crosby .....	53 03
Cross .....	81 42
Crowley .....	9 67
Cushing .....	38 69
Cumberland Road .....	15 13
Coburn Avenue .....	36 64
D .....	19 83
Dalton .....	19 08
Daly .....	5 17
Dartmouth .....	5 76
Davidson .....	41 09
Davis .....	2 05
Decatur .....	1 74
Doane .....	3 40
<i>Amount carried forward</i> .....	\$3628 76

<i>Amount brought forward</i> .....	\$3628 76
Dover .....	37 05
Dummer .....	15 21
Durant .....	32 50
Dutton.....	221 80
Dodge .....	7 69
Emery .....	2 92
Eighth Avenue.....	10 81
Ellsworth .....	6 19
Eaton .....	2 07
East Merrimack.....	195 53
East Pine.....	11 28
Edson .....	8 20
Eighteenth .....	34 33
Ennell .....	22 25
Everett .....	4 88
Eighth.....	15 79
Eleventh .....	62 08
Elm .....	12 59
Elliott .....	4 14
Exeter .....	4 13
Front.....	7 38
<i>Amount carried forward</i> .....	\$4347 88



<i>Amount brought forward</i> .....	\$4347 88
Franklin .....	7 81
Fairmount .....	83 07
Fairview .....	9 71
Favor .....	6 19
Fay .....	16 77
Fayette .....	76 41
Fenwick .....	13 19
Fifth .....	48 57
Fifth Avenue .....	11 87
First .....	91 06
Fletcher .....	218 41
Floyd .....	10 44
Ford .....	18 14
Forrest .....	45 75
Fort Hill Avenue .....	58 93
Foster .....	39 26
Fourth .....	40 50
Fourth Avenue .....	40 23
Franklin .....	9 71
Fremont .....	46 84
Fulton .....	6 18
<i>Amount carried forward</i> .....	\$5246 92

<i>Amount brought forward</i> .....	\$5246 92
Fernald .....	2 16
Fulton.....	27 02
Farmland Road .....	8 24
Glidden Avenue.....	3 77
Gates .....	17 79
George .....	36 09
Gorham .....	509 28
Grand .....	37 65
Green.....	29 15
Grove .....	38 54
Garnet.....	3 11
Griffin .....	2 07
Gibson .....	12 06
Gold .....	2 03
Hoyt Avenue .....	3 80
Hale .....	114 68
Hall .....	33 50
Hampshire .....	45 75
Hanks .....	15 62
Hanover .....	7 70
Harding .....	4 90
<i>Amount carried forward</i> .....	\$6201 83

<i>Amount brought forward</i> .....	\$6201 83
Harrison.....	23 34
Harvard .....	43 68
Hancock Avenue.....	14 63
Hastings .....	36 13
High.....	71 20
Highland .....	26 66
Hildreth .....	112 52
Howard .....	159 23
Howe .....	6 06
Hudson .....	11 16
Humphrey .....	71 57
Hurd.....	32 48
Huntington .....	30 72
Hovey .....	11 70
Hutchinson.....	7 53
Holyrood Avenue .....	48 30
Horn.....	1 96
Highland Avenue.....	3 90
Hawthorne .....	1 96
Hadley .....	31 62
Jackson.....	104 33
<i>Amount carried forward</i> .....	<u>\$7052 51</u>

<i>Amount brought forward</i> .....	\$7052 51
James .....	9 13
Jefferson .....	11 48
Jewett .....	45 53
John .....	18 44
June .....	15 92
Jenness .....	27 60
Keene .....	3 69
King .....	1 95
Kinsman .....	14 03
Kirk .....	22 55
Kitson .....	5 75
Kimball Avenue .....	1 94
Lagrange .....	10 52
Lakeview Avenue .....	428 20
Lane .....	22 01
Laurel .....	11 63
Lawrence .....	405 64
Lawson .....	7 48
Lee .....	17 04
Leroy .....	11 39
Leverett .....	10 31
<i>Amount carried forward</i> .....	\$8151 14

<i>Amount brought forward</i> .....	\$8151 14
Lewis .....	7 01
Liberty .....	55 48
Lincoln .....	65 59
Lilley Avenue .....	50 15
Linden .....	20 40
Little .....	5 59
London .....	18 65
Loring .....	19 98
Ludlam .....	50 49
Lundberg .....	19 76
Lyon .....	10 20
Lombard .....	7 75
Livermore .....	4 02
Lennox .....	1 04
Lamb .....	11 50
Livingston .....	11 36
Livingston Avenue .....	46 33
L .....	3 70
Madison .....	4 12
Main .....	17 00
Mammoth Road .....	188 67
<i>Amount carried forward</i> .....	\$8769 93

<i>Amount brought forward</i> .....	\$8769 93
Manchester.....	16 22
Mansur.....	27 31
Marginal.....	7 58
Marion.....	10 55
Market.....	338 27
Marsh.....	2 03
Marshall.....	14 48
May.....	9 95
Merrimack.....	277 40
Methuen.....	60 53
Middle.....	2 62
Middlesex.....	206 40
Moody.....	174 32
Moore.....	52 53
Mt. Grove.....	38 02
Mt. Hope.....	15 38
Mt. Vernon.....	110 35
Mt. Washington.....	49 09
Myrtle.....	44 25
Manahan.....	10 72
Meadowcroft.....	12 73

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*Amount carried forward* ..... \$10,250 66

<i>Amount brought forward</i> .....	\$10,250 66
Mill .....	2 33
Merrill .....	7 16
Mead .....	7 32
Marlborough .....	21 50
Midland .....	25 52
Meadow Road .....	1 96
McKinley Avenue .....	3 90
Nesmith .....	51 14
Newhall .....	16 84
Nichols .....	7 48
Nicollet .....	6 96
Nineteenth .....	27 91
North .....	10 65
New Moody .....	60 85
New Fletcher .....	1 04
Newell .....	11 66
Oak .....	21 13
Olive .....	6 17
Osgood .....	7 53
Otis .....	8 13
Oliver .....	1 94
<i>Amount carried forward</i> .....	<u>\$10,559 78</u>

<i>Amount brought forward</i> .....	\$10,559 78
Oakland.....	10 63
Parkview Avenue.....	34 73
Pollard .....	2 05
Pearl.....	4 10
Paige .....	17 04
Palmer .....	1 75
Park .....	14 91
Pawtucket .....	337 16
Perkins .....	9 77
Perry.....	25 39
Pine.....	78 62
Plain.....	17 04
Pleasant .....	23 35
Pond.....	2 90
Porter .....	18 33
Powell .....	42 73
Prescott .....	3 25
Princeton .....	29 91
Puffer .....	10 32
Phillips.....	13 81
Parker .....	10 71

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*Amount carried forward*..... \$11,268 28



<i>Amount brought forward</i> .....	\$11,268 28
Payton.....	3 69
Prospect .....	2 56
Quebec .....	5 94
Queen .....	17 23
Race .....	10 08
Railroad .....	9 87
Ralph .....	5 46
Read.....	29 91
Riverside .....	68 69
Robert.....	3 69
Rock.....	86 47
Rogers .....	158 30
Royal .....	21 34
Richards .....	37 34
Rolfe.....	17 31
Richmond .....	5 65
Robbins .....	19 91
Rea .....	3 81
Salem .....	114 08
Sargent.....	17 50
Sayles .....	20 58
<i>Amount carried forward</i> .....	\$11,927 69

<i>Amount brought forward</i> .....	\$11,927 69
School .....	305 44
Second .....	23 85
Second Avenue .....	22 38
Seventh .....	28 71
Sherman .....	26 98
Shaw .....	45 37
Shedd .....	1 71
Sixth .....	73 06
Sixth Avenue .....	9 23
Smith Avenue .....	3 81
South .....	56 07
South Canton .....	12 41
South Highland .....	9 16
South Loring .....	19 61
South Walker .....	13 43
South Whipple .....	15 61
Spalding .....	7 45
Stackpole .....	51 59
Stanley .....	26 34
Stevens .....	98 26
Suffolk .....	19 64

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*Amount carried forward* .....\$12,797 80

<i>Amount brought forward</i> .....	\$12,797 80
Summer .....	46 43
Simpson .....	19 28
Smith .....	56 39
State .....	12 04
Sidney.....	5 51
Swift .....	11 22
St. James .....	2 07
Sanders Avenue.....	2 18
Seventh Avenue.....	13 00
Sheldon .....	3 91
Somerset.....	5 41
Schaffer .....	5 85
Sanborn .....	4 34
Sutherland.....	8 69
Talbot .....	18 72
Tenth.....	40 48
Third .....	121 31
Third Avenue.....	20 37
Thirteenth.....	24 29
Thorndike .....	309 20
Tilden .....	5 54
<i>Amount carried forward</i> .....	\$13,534 03

<i>Amount brought forward</i> .....	\$13,534 03
Tucker .....	32 03
Twelfth .....	22 21
Tyler .....	20 26
Tremont .....	9 88
Tanner .....	15 35
Tyler Park .....	60 57
Union .....	16 07
Varney .....	19 65
Varnum .....	12 15
Varnum Avenue.....	142 53
Victoria .....	21 50
Vernon .....	6 17
Watson.....	3 72
Ware.....	5 37
Ward .....	32 07
Wachusett .....	7 82
Walker .....	193 38
Walnut .....	7 79
Wamesit .....	9 33
Wannalancit.....	25 58
Warren.....	17 01

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*Amount carried forward*..... \$14,214 47

<i>Amount brought forward</i> .....	\$14,214 47
Warwick .....	26 32
Washington.....	16 06
West .....	43 84
West Fifth.....	18 31
West Fourth.....	24 93
West Ninth.....	7 02
West Sixth .....	91 59
West Third.....	27 94
Westford .....	126 15
Whipple .....	17 65
Wilder.....	136 52
Willie .....	51 90
Willow.....	17 90
Wilson .....	6 19
Windsor .....	10 47
Worthen .....	140 05
William.....	28 39
Western Avenue.....	146 74
White .....	15 54
West Bowers .....	8 15
Wyman .....	34 72
<i>Amount carried forward</i> .....	\$ 15,210 85

<i>Amount brought forward</i> .....	\$15,210 85
Whitney Avenue.....	11 94
Willie Avenue.....	12 44
West Eleventh.....	5 51
West Adams.....	12 81
Winter .....	8 05
Waite .....	1 03
Wentworth Avenue .....	66 45
Woodward Avenue.....	15 19
Waverly Avenue.....	1 83
Winthrop Avenue .....	3 90
Willard .....	17 82
West (Ayer's City).....	4 28
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<i>Total</i> .....	\$15,372 10

## REPAIRING STREETS.

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Arlington Street.....	1 88
Ardell Street .....	94
Andover Street .....	9 12
Alder Street.....	3 37
Adams Street.....	2 03
Aiken Avenue .....	92 75
Bridge Street .....	2 59
Bourne Street.....	3 25
Broadway.....	12 70
Beacon Street.....	30 88
Beech Street .....	7 28
Bellevue Street .....	90 05
Branch Street.....	5 25
Claire Street .....	7 62
Chelmsford Street .....	8 04
Cambridge Street .....	2 37
Church Street .....	11 39
Concord Street .....	3 51
Carleton Street .....	3 00
Dutton Street.....	55 97
Ennell Street .....	1 87
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<i>Amount carried forward.....</i>	<i>\$355 86</i>

<i>Amount brought forward</i> .....	\$355 86
East Merrimack Street .....	5 25
Eleventh Street .....	2 88
Everett Street .....	86
First Street .....	116 36
Fletcher Street .....	1 79
Fayette Street .....	2 63
Gorham Street .....	84
Hudson Street .....	3 00
Humphrey Street .....	8 11
Holyrood Avenue .....	2 62
Hadley Street .....	41 08
Hall Street .....	2 27
Hurd Street .....	3 50
Harrison Street .....	73
Howard Street .....	9 63
Ina Street .....	14 00
Jefferson Street .....	87
Keene Street .....	6 94
Kinsman Street .....	1 75
Laurel Street .....	5 26
Lawrence Street .....	3 50

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*Amount carried forward* ..... \$589 73



<i>Amount brought forward</i> .....	\$589 73
Lincoln Street.....	73
Lakeview Avenue.....	22 51
Middlesex Street.....	6 75
Moody Street .....	26 11
Marginal Street .....	5 50
Merrimack Street.....	57 72
Nesmith Street.....	5 50
North Street.....	26 89
Oliver Street.....	9 50
Prescott Street.....	15 08
Paige Street.....	1 43
Palmer Street .....	18 66
Pawtucket Street .....	12 61
Pleasant Street.....	5 50
Perkins Street.....	20 00
Richards Street .....	5 02
Richardson Street .....	24 39
Rogers Street .....	5 25
Rock Street .....	2 81
Starbird Street .....	14 00
Sherman Street .....	3 12
<i>Amount carried forward</i> .....	\$878 81

<i>Amount brought forward</i> .....	\$878 81
Stanley Street.....	5 26
School Street .....	2 03
South Street.....	4 25
Tenth Street.....	6 97
Tanner Street.....	6 00
Union Street .....	84
Varnum Avenue.....	39 75
Wentworth Avenue .....	22 37
Westford Street .....	8 29
Wilder Street .....	3 51
Ware Street.....	3 75
Willie Street.....	88
Walker Street .....	43 30
<i>Total</i> .....	<u>\$1026 01</u>

## REPAIRING SIDEWALKS.

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Andover Street.....	3 94
Ames Street.....	5 03
Aiken Avenue.....	22 38
Butterfield Street.....	3 13
Bowers Street.....	4 75
Brooks Street.....	1 50
Broadway.....	34 86
Branch Street .....	16 64
Bassett Street.....	3 47
Cross Street.....	1 94
Claire Street .....	4 76
Central Street.....	4 38
Congress Street .....	3 07
Chapel Street.....	5 25
Centre Street .....	2 63
Concord Street.....	1 75
Charles Street .....	2 19
Dummer Street .....	4 22
Dutton Street.....	1 75
Davidson Street.....	87
Dodge Street.....	87

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*Amount carried forward* ..... \$129 38

<i>Amount brought forward</i> .....	\$129 38
Daly Street.....	3 91
Fourth Avenue .....	8 38
Fayette Street.....	18 66
Fremont Street .....	3 51
Fairmount Street.....	8 31
Gorham Street.....	7 67
Grand Street .....	3 90
Hudson Street .....	12 41
High Street.....	2 43
Hanover Street .....	1 31
Hale Street.....	3 90
Hampshire Street .....	5 36
Jefferson Street .....	88
Kirk Street.....	1 75
Lincoln Street .....	3 00
Livingston Street .....	2 00
Lewis Street.....	89
Lawrence Street.....	1 09
Lee Street .....	1 76
Moody Street.....	10 06
Marsh Street .....	4 50
<i>Amount carried forward</i> .....	<u>\$235 06</u>

<i>Amount brought forward</i> .....	\$235 06
Middlesex Street .....	13 01
Merrimack Street.....	22 30
Market Street.....	3 08
Middle Street .....	88
New Moody Street.....	8 37
Otis Street .....	2 00
Oakland Street.....	7 50
Palmer Street .....	8 51
Railroad Street.....	7 81
Riverside Street.....	1 75
School Street .....	14 95
Shattuck Street .....	12 63
Suffolk Street .....	87
South Highland Street .....	87
Thorndike Street.....	2 63
Tyler Street.....	4 38
Third Street.....	5 70
Willie Street.....	2 82
Winter Street .....	2 31
Westford Street .....	2 01
Wilder Street .....	1 50
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<i>Amount carried forward</i> .....	\$360 94

<i>Amount brought forward</i> .....	\$360 94
White Street.....	3 91
Ware Street.....	1 32
	<hr/>
<i>Total</i> .....	\$366 17

## TRIMMING TREES.

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Andover Street .....	\$2 90
Appleton Street .....	2 99
Arlington Street.....	47
Alder Street.....	31 90
Ames Street.....	10 60
Bridge Street .....	5 34
Broadway.....	50 67
Branch Street.....	3 75
Beech Street .....	10 44
Bowers Street.....	3 28
B Street .....	94
Clark Street.....	5 70
C Street .....	2 34
Chelmsford Street .....	17 86
Columbus Avenue.....	4 93
Chapel Street.....	1 88
Charles Street.....	13 21
Common Street.....	15 31
Dutton Street.....	8 22
Dummer Street .....	17 86
Durant Street.....	10 78
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<i>Amount carried forward .....</i>	<i>\$221 37</i>

<i>Amount brought forward</i> .....	\$221 37
East Merrimack Street .....	1 53
Eighteenth Street .....	2 66
Elm Street .....	47
Fourth Street .....	21 41
Fletcher Street .....	6 37
First Street.....	3 75
Fairmount Street.....	5 41
Fourth Avenue .....	1 67
Gates Street.....	1 87
Grand Street .....	4 22
Hurd Street.....	6 28
High Street .....	4 29
Kirk Street.....	15 41
Liberty Street.....	2 00
Lakeview Avenue .....	47
Mt. Vernon Street .....	7 69
Moody Street.....	10 31
Mt. Washington Street .....	6 19
Mansur Street .....	14 94
Merrimack Street.....	42 90
Market Street.....	3 75

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*Amount carried forward*..... \$384 96



<i>Amount brought forward</i> .....	\$384 96
Middlesex Street.....	16 37
Moore Street .....	3 75
Mammoth Road .....	1 88
Nesmith Street.....	2 16
Pawtucket Street .....	23 57
Pine Street .....	71
Parker Street .....	7 38
Paige Street.....	5 16
Royal Street.....	1 84
Rock Street.....	1 06
Summer Street.....	94
South Whipple Street.....	1 41
School Street .....	12 18
Stackpole Street.....	1 88
Tenth Street.....	24 61
Tyler Street.....	6 21
Third Street.....	6 91
Willie Avenue.....	1 88
Westford Street .....	17 83
Willard Street.....	22 04
West Sixth Street.....	1 87
<i>Amount carried forward</i> .....	<u>\$546 60</u>

<i>Amount brought forward</i> .....	\$546 60
West Adams Street.....	3 75
Wentworth Avenue .....	1 41
Walker Street.....	4 19
Wannalancit Street.....	2 25
<hr/>	
<i>Total</i> .....	\$558 20

## BUILDING CULVERTS.

Parker Street.....	\$62 82	175 feet
Tenth Street.....	32 50	70 "
Willard Street.....	22 12	30 "
<i>Total</i> .....	\$117 44	275 feet

## COST OF REMOVING SNOW.

January.....	\$ 2391 31
February .....	7021 62
March .....	1030 37
December .....	7392 73
<i>Total</i> .....	\$ 17,836 03

## CLEANING STREETS.

MONTH.	UNPAVED.	PAVED.
January .....	\$ 26 40	\$ 1333 67
February .....	138 27	1184 75
March .....	858 39	1218 12
April .....	1409 48	1145 94
May .....	2162 76	1323 81
June .....	1114 00	1304 49
July .....	1733 18	1369 67
August .....	2077 49	1355 31
September .....	1809 28	1291 82
October .....	1445 34	1450 00
November .....	2256 39	1506 39
December .....	341 12	1523 66
<i>Total</i> .....	\$15,372 10	\$16,007 63

## ROLLING STREETS.

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Arlington Street .....	\$2 12
B Street .....	9 56
Brooks Street .....	4 78
Beech Street.....	2 39
Bellevue Street.....	3 72
Concord Street.....	4 79
Cornell Street.....	4 78
Cheever Street.....	4 25
Fifth Avenue .....	15 93
Hall Street .....	4 24
Keene Street .....	9 56
Mammoth Road.....	6 38
Mansur Street.....	2 39
Madison Street .....	7 44
Marginal Street .....	1 59
Newhall Street.....	14 88
Oak Street .....	2 44
Stevens Street.....	10 62
Smith Street.....	12 00
Sheldon Street.....	2 40

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*Amount carried forward* ..... \$126 26

<i>Amount brought forward</i> .....	\$126 26
School Street.....	4 24
Schaffer Street .....	2 12
Twelfth Street .....	6 75
Thirteenth Street.....	4 78
Tenth Street.....	5 35
West Adams Street.....	22 32
Wannalancit Street .....	2 13
Willie Street.....	4 78
<hr/>	
<i>Total</i> .....	\$178 73

## NEW GRANITE CROSSINGS.

STREETS.	LOCATION.	LENGTH IN FT.	COST.
Agawam .....	At Griffin Street .....	53	\$76 32
Bridge .....	Paige Street.....	143	136 19
Bridge .....	West Sixth Street.....	108	98 54
Billings .....	Bridge Street .....	64	54 99
Coburn.....	West Third Street.....	68	56 34
Coburn .....	Jewett Street.....	133	98 73
Chapel .....	Walnut Street.....	60	56 24
Church.....	Lawrence Street.....	96	85 38
Gershom Ave....	Crawford Street.....	82	55 25
John .....	Paige Street.....	173	156 51
Lakeview Ave...	Campaw Street.....	68	59 75
Lakeview Ave...	Fel's New Streets.....	54	44 01
Lawrence.....	Wamesit Street.....	63	54 13
Ludlam .....	Bridge Street .....	72	53 99
Methuen .....	Beacon Street.....	22	30 38
Merrimack .....	Worthen Street.....	96	102 15
Merrimack .....	Dutton Street.....	96	109 25
Merrimack .....	Austin Street .....	51	43 62
	<i>Amount carried forward.....</i>	1502	\$1371 77

## NEW GRANITE CROSSINGS.—CONTINUED.

STREETS.	LOCATION.	LENGTH IN FT.	COST.
	<i>Amount brought forward.....</i>	1502	\$1371 77
New Moody .....	At Gershom Avenue.....	96	84 00
Pine .....	Wilder Street .....	75	65 35
Pleasant .....	Rogers Street.....	60	58 12
South .....	Highland Street.....	96	78 81
Thorndike.....	Livingston's Mill.....	96	75 85
Thorndike.....	Jail .....	83	76 38
Westford .....	South Canton Street .....	75	62 63
Walnut.....	Central Street.....	70	92 29
Walnut.....	Chapel Street.....	62	86 06
	<i>Total .....</i>	2215	\$2051 26



## RELAYING GRANITE CROSSINGS.

STREETS.	LOCATION.	COST.	LENGTH IN FT.
Aiken .....	At Lakeview Avenue .....	\$34 12	137.7
Agawam .....	Griffin Street .....	44 46	102.5
Agawam .....	No. 43 .....		
Agawam .....	Barrington Street .....		
Broadway .....	Mt. Vernon Street .....	31 81	144.0
Broadway .....	Mt. Vernon Street .....		
Broadway .....	Phillips Street .....	24 34	56.0
Broadway .....	Claire Street .....	117 61	48.0
Broadway .....	Thomas Street .....		48.0
Broadway .....	Schaffer Street .....		56.0
Broadway .....	Walker Street .....		52.0
Broadway .....	End of Smooth Paving .....		32.0
Broadway .....	School Street .....	43 12	136.0
Broadway .....	School Street .....		
Beacon .....	Methuen Street .....	17 62	40.0
Church .....	Lawrence Street .....	17 00	50.0
Charles .....	Central Street .....	23 29	118.7
Charles .....	Lawrence Street .....		
Gorham .....	Moore Street .....	27 98	68.0
Garnet .....	Middlesex Street .....	15 88	45.0
<i>Amount carried forward</i> .....		\$418 73	1133.9

## RELAYING GRANITE CROSSINGS.—CONTINUED.

STREETS.	LOCATION.	COST.	LENGTH IN FT.
	<i>Amount brought forward ..</i>	\$418 73	1133 9
Kirk.....	At Merrimack Street.....	47 12	169.8
Kirk.....	Kirk Avenue .....		
Kirk.....	Lee Street .....		
Kirk.....	John Avenue.....		
Kirk.....	End of Smooth Paving....		
Middlesex .....	Revere Street.....	21 37	78.6
Merrimack .....	Dutton Street.....	19 41	96.0
Merrimack .....	Moody Street.....	21 65	50.0
Merrimack .....	Pawtucket Street.....	21 24	96.0
Merrimack .....	Cabot Street .....	29 63	114.0
Pearl .....	Middlesex Street.....	16 53	45.0
Pleasant .....	Andover Street.....	23 41	69.0
Paige.....	John Street .....	18 63	72.6
Thorndike .....	Madison Street .....	25 74	29.4
Thorndike .....	South Highland Street ...		33.4
Westford .....	Walker Street.....	8 73	206.2
Westford .....	Dover Street .....	32 09	
Westford .....	Wilder Street.....	35 08	
Westford .....	End of Smooth Paving ...	4 75	
<i>Total</i> .....		\$744 11	2193.9

## REPAIRING CROSSINGS.

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Adams Street.....	\$ 5 25
Bridge Street .....	5 57
Branch Street.....	2 37
Central Street.....	4 37
Charles Street .....	7 87
Chapel Street.....	18 50
Church Street.....	7 88
Kirk Street.....	8 26
Lawrence Street.....	14 37
Moody Street.....	11 93
Pleasant Street .....	2 61
Sherman Street .....	15 75
Sixth Street.....	7 88
Westford Street .....	4 75
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<i>Total</i> .....	\$117 36

## CONCRETE CROSSINGS LAID IN 1902.

STREETS.	LOCATION.	COST.	SQ. YDS.
Arch .....	At Middlesex Street .....	\$24 40	24.4
Chestnut .....	Nesmith Street .....	41 30	41.3
	<i>Total</i> .....	\$65 70	65.7

## CONCRETE PAVEMENTS REPAIRED IN 1902.

STREETS.	LOCATION.	COST.	SQ. YDS.
Mammoth Road.	Between Pawtucket Bridge and Riverside Street .....	\$62 23	88.9
Pawtucket .....	From Merrimack Street to School Street.....	545 65	779.5
	<i>Total</i> .....	\$607 88	868.4

## BICYCLE PATHS REPAIRED IN 1902.

STREETS.	LOCATION.	COST.	SQ. YDS.
Bridge .....	West Side, between Merrimack Street and Central Bridge ...	\$8 90	8.9
Bridge .....	Both Sides, between Merrimack Street and Central Bridge ...	175 14	250.2
	<i>Total</i> .....	\$184 04	259.1

## RELAYING GRANITE PAVING.

STREETS.	COST.	SQ. YDS.
Dutton .....	\$62 03	190
Gorham .....	128 39	373
Middlesex .....	125 75	633
Mt. Vernon .....	8 12	24.8
Merrimack .....	153 72	436
Lakeview Avenue.....	134 42	328
Lawrence .....	621 28	2050
School .....	727 04	2463.4
Varnum Avenue .....	20 75	98
Western Avenue.....	80 78	231
<i>Total</i> .....	\$2062 28	6827.2

## GUTTERS PAVED IN 1902.

STREETS.	LENGTH IN FT.	COST.
Aiken Avenue.....	920	\$92 00
Andover Street.....	90	8 85
Agawam Street.....	1828	159 38
Butler Avenue.....	174	20 13
Belmont Avenue.....	185	26 91
Beacon Street.....	1400	172 25
Coburn Street.....	1380	182 84
Chapel Street.....	872	46 72
Eleventh Street.....	342	21 00
Fourth Avenue.....	1575	143 50
Fifth Street.....	150	17 51
Garnet Street.....	180	21 09
Hovey Street.....	108	15 97
John Street.....	130	14 20
Laurel Street.....	388	33 82
Lincoln Street.....	1282	160 14
Marginal.....	1265	146 84
Merrimack Street.....	610	82 75
<i>Amount brought forward.....</i>	12,879	\$1365 90

## GUTTERS PAVED IN 1902.—CONTINUED.

STREETS.	LENGTH IN FT.	COST.
<i>Amount brought forward</i> .....	12,879	\$1365 90
Mt. Hope Street .....	540	49 00
New Moody Street .....	565	38 84
Pawtucket Street.....	1645	183 61
Perry Street .....	284	27 84
Prospect Street .....	70	5 74
Pleasant Street.....	658	94 63
Stevens Street.....	730	54 48
Seventh Street .....	115	8 53
Tenth Street.....	3475	462 42
Varnum Street .....	325	34 13
Wentworth Avenue .....	1765	181 22
Wamesit Street.....	1200	87 98
Worthen Street.....	540	33 01
<i>Total</i> .....	24,791	\$2627 33

## REPAVING GUTTERS.

STREETS.	COST.	LENGTH IN FT.
Agawam .....	\$145 03	900
Beacon .....	24 68	110
Edson .....	5 50	30
First .....	14 27	118
Fairmount .....	14 45	145
Twelfth .....	3 68	92
<i>Total</i> .....	\$207 61	1395



## RELAYING BRICK SIDEWALKS.

STREETS.	COST.	SQ. YDS.
Andover .....	\$ 8 87	57
Bartlett .....	3 51	30
Central .....	9 94	63
Charles .....	170 22	678.6
Chapel .....	9 00	69
Kirk.....	93 20	444.4
Merrimack .....	159 37	559.8
Market.....	84 10	900
Paige.....	105 09	414.3
<i>Total</i> .....	\$643 30	3216.1

## ASPHALT PAVEMENT.

STREETS.	LOCATION.	LAI'D BY	SQ. YDS.	PRICE.	AMOUNT.	COST OF PREPAIRING STREETS.	TOTAL COST.
(a) Aiken.....	Aiken Street Bridge to Lakeview Ave....	Merrimack Pav- ing Co .....	2435.66	\$2 95	\$7185 20	\$357 56	\$7542 76
(b) Broadway..	Willie Street to Walk- er Street.....	Merrimack Pav- ing Co .....	14719.27	2 73	40,183 61	4870 76	45,054 37
Charles .....	Central to Lawrence Street .....	Union Paving Co .....	2714.54	2 96	8035 04	1375 09	9410 13
Kirk.....	Merrimack Street to Paige Street.....	Merrimack Pav- ing Co .....	1883.52	2 95	5572 65	1453 31	7025 96
Paige.....	Kirk Street to John Street .....	Merrimack Pav- ing Co .....	1616.86	2 95	4769 74	941 74	5711 48
Westford .....	Loring Street to Wil- der Street .....	Union Paving Co .....	3310.32	2 97	9831 65	1030 31	10,861 96
		<i>Total</i> .....	26,680.17		\$75,577 89	\$10,028 77	\$85,606 66

(a) Total number square yards 2435.66, at \$2.95 = \$7185.20. Deduct amount paid by Boston & Nor-  
thern Street R. R., \$1217.36.

(b) Completed 1902, 9789.86 square yards, at \$2.73 = \$26,726.32 laid in 1902.

## WARREN'S BITUMINOUS MACADAM PAVEMENT.

STREETS.	LOCATION.	LAID BY	SQ. YDS.	PRICE.	AMOUNT.	COST OF REPAIRING STREETS.	TOTAL COST.
(a) Merrimack	Cabot Street to Paw- tucket Street, .....	Warren Brothers	1822.09	\$1 83	\$1104 65	\$1104 65	\$4439 07
Pleasant .....	Andover Street to Rogers Street .....	Warren Brothers	6336.51	2 13(b)	13,536 71	694 37	14231 08
		<i>Total</i> .....	8158.60		\$16,871 13	\$1799 02	18670 15

(a) Unfinished.

(b) Includes pitching gutters, \$39.94.

## REPAIRING BRIDGES.

STREETS.	LABOR.	STOCK.	TOTAL COST.
Aiken .....	\$54 20	\$16 65	\$70 85
Bedford Avenue .....	28 25		28 25
Baldwin.....	27 51	39 30	66 81
Central (Bridge) .....	80 83		80 83
Cabot .....	49 25	88 38	137 63
Dutton .....	35 75	49 00	84 75
Jefferson .....	18 70	97 50	116 20
Lexington Avenue .....	27 74		27 74
Merrimack .....	34 01	11 63	45 64
Moody .....	66 92	116 00	182 92
Market.....	53 83	141 50	195 33
Newhall .....	25 50	108 52	134 02
Worthen .....	141 26	765 19	906 45
<i>Total</i> .....	\$643 75	\$1433 67	\$2077 42

## PAINTING BRIDGES.

Aiken Street .....	\$ 29 69
Jefferson Street .....	36 25
Moody Street.....	93 38
Merrimack Street .....	40 63
<i>Total</i> .....	\$199 95

## MISCELLANEOUS.

	SUNDRIES	LABOR.	TEAMING.	TOTAL COST.
Teaming Sand .....	\$118 14	\$298 27	\$144 13	\$442 40
Sanding Sidewalks.....		134 81	10 50	145 31
Building Fences .....		242 16		360 30
Building Walls.....		186 00		186 00
Picking up Papers .....		461 03		461 03
Storm Guards.....		48 32		48 32
Lowering Driveways.....		31 17		31 17
Grading Sidewalks .....		104 66		104 66
Changing Line Merrimack Street .....	425 08	78 92		531 00
Paving Arch Street.....	106 48	319 52		426 00
Repairing Central Bridge....	63 60	149 94		213 54
Widening and Grading Parker Street .....	2110 13	1213 13		3323 26
Extension B Street .....	1883 56	1303 08		3186 64
	\$4733 99	\$4571 01	\$154 63	\$9459 63

ANNUAL APPROPRIATION FOR WATERING  
STREETS.

APPROPRIA- TION.	RECEIPTS.	TOTAL RECEIPTS.	EXPENDI- TURES.	TRANS. TO GEN. TREAS.
\$14,700 00	\$953 35	\$15,653 35	\$14,194 35	\$1459 00

## PERSONAL PROPERTY.

Schedule of Personal Property belonging to the  
Street Watering Department, December 31, 1902.

23 Horses .....	\$2400 00
12 Sets Double Harness .....	325 00
26 Halters .....	19 50
24 Collars .....	50 00
13 Sprinkling Carts.....	1950 00
1 Monkey Wrench.....	75
2 Neck Yokes.....	2 00
5 Double Carts .....	500 00
24 Feed Baskets .....	10 00
2 Pair Tongs .....	4 00
1 8-foot Step Ladder.....	75
30 Horse Brushes .....	12 00
25 Curry Combs.....	6 50
26 Cards.....	2 60
1 Large Stillson Wrench.....	1 00
10 Pails .....	2 50
1 Feed Truck.....	4 00
4 Shut-off Wrenches .....	4 00
1 4-quart Measure .....	50

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*Amount carried forward* .....\$5295 10

<i>Amount brought forward</i> .....	\$5295 10
48 Blankets.....	144 00
10 Sponges.....	5 00
10 Pounds Soap.....	2 50
1 Hydrant Wrench.....	16 00
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<i>Total</i> .....	\$5462 60



## ANNUAL APPROPRIATION FOR SEWER CONSTRUCTION.

NAME OF APPROPRIATION.	BAL. CR. JAN. 1, 1902.	APPROPRIA- TION.	RECEIPTS.	TOTAL RECEIPTS.	EXPENDI- TURES.	TRANS. TO GEN. TREAS.
Construction.....	.....	\$88,011.53	\$442 75	\$88,454 28	\$88,441 01	\$13 27
Bowden Street, Sewer .....	\$1075 00	.....	33 44	1108 44	1108 44	.....
Chase Street, Sewer .....	550 00	.....	.....	550 00	550 00	.....
Court Street, Sewer .....	535 17	.....	.....	535 17	535 17	.....
Central and Chapel Sts., Sewer...	573 63	.....	.....	573 63	573 63	.....
Meadowcroft Street, Sewer.....	4584 49	.....	.....	4584 49	4584 49	.....
West Street, Outlet.....	1000 00	.....	.....	1000 00	687 02	312 98
Western Avenue, Sewer.....	278 12	.....	2 25	280 37	280 37	.....
Central Street, Sewer.....	400 00	.....	.....	400 00	400 00	.....
<i>Total</i> .....	\$8996 41	\$88,011 53	\$478 44	\$97,486 38	\$97,160 13	\$326 25

## ANNUAL APPROPRIATION FOR SEWER MAINTENANCE.

APPROPRIA- TION.	RECEIPTS.	TOTAL RECEIPTS.	EXPENDI- TURES.	TRANS TO GEN. TREAS.
\$23,500 00	\$3210 81	\$26,710 81	\$26,691 24	\$19 57

## PERSONAL PROPERTY.

Schedule of Personal Property belonging to the  
Sewer Department, December 31, 1902.

20 Parts of Old Grates .....	26 00
32 Crow Bars .....	32 00
10 Crabs for Shear Poles .....	250 00
281 Feet Drain Pipe .....	34 72
15 Water Barrels.....	13 00
7 Mortar Beds.....	7 00
3 Sand Screens .....	15 00
66 Catch Basin Steps .....	6 60
18 Square Feet Packing.....	3 00
1 Pipers Dye and Stock.....	18 00
6 Tool Boxes for Boilers.....	24 00
2 Pairs Tongs.....	4 00
12 Hydrant Wrenches.....	12 00
14 Jack Bars .....	4 00
1 Paving Maul.....	3 00
3 Portable Forges .....	200 00
16 Tool Boxes .....	160 00
4 Sewer Wheelbarrows .....	4 00
2 Dutchmen for Hydrants.....	25 00

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*Amount carried forward*..... \$841 32

<i>Amount brought forward</i> .....	\$841 32
9 Wooden Rolls .....	2 25
4 Houses for Engines .....	80 00
6 Batteries and Wires.....	120 00
7 Steam Drills and Tools .....	1500 00
12 Masons Trowels.....	12 00
525 Feet Drill Steel.....	147 00
9 Caulking Tools.....	4 20
4 Hand Drill Hammers.....	2 00
8 Tape Lines .....	8 00
5 Pounds Shims and Wedges.....	3 50
55 Striking Hammers.....	110 00
18 Stone Hammers.....	36 00
6 Frost Hammers .....	18 00
2 Fiddle Blocks.....	11 00
300 Pick Handles .....	30 00
17 Sheave Blocks .....	1 70
32 Catch Basin Dippers.....	8 00
12 Sheathing Caps.....	28 00
4 100-lb. Iron Mauls .....	4 00
18 Wooden Mauls .....	18 00
16 Sets Shear Poles.....	160 00

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*Amount carried forward*..... \$3144 97

<i>Amount brought forward</i> .....	\$3144 97
1 Trainer Transmitter Sewer Machine .....	3000 00
17 Jack Screws.....	34 00
2 Kegs 30 Penny Nails.....	3 30
100 Lanterns .....	48 00
21 Pairs Long Rubber Boots.....	52 50
12 Iron Pails .....	12 00
5 Wooden Wheelbarrows .....	5 00
875 Feet $\frac{3}{4}$ -inch Rubber Hose .....	45 00
1 Set Branding Irons.....	2 00
26 Hoes .....	13 00
12 Post Hole Scoops.....	12 00
190 Round Point Shovels.....	130 00
135 Square Point Shovels.....	120 00
2150 Feet Old Rope .....	60 00
100,000 Feet Sewer Lumber.....	1200 00
8 Marine Pumps .....	96 00
210 Feet Large Pump Hose.....	260 00
50 Pounds Dualin .....	11 50
1 60-gallon Oil Can.....	7 50
3 Steam Drill Pumps.....	3 00
20 Drilling Spoons .....	10 50
<i>Amount carried forward</i> .....	\$8270 27

<i>Amount brought forward</i> .....	\$8270 27
17 Hand Saws.....	17 50
3 Adzes .....	3 75
4 Axes.....	3 50
8 Hatchets.....	8 00
33 Packages Carriage Bolts .....	33 00
9 Spirit Levels .....	12 00
2 Steel Squares .....	2 00
12 Measuring Sticks .....	12 00
75 Hammer Handles.....	7 50
50 Sledge Hammer Handles.....	5 00
7 Gallons Blue Paint.....	14 00
8 Claw Bars.....	4 00
21 Padlocks.....	21 00
25 Feet Steam Drill Packing.....	3 00
1 Box Repairs for Marine Pump .....	25 00
6 Strainers for Marine Pump.....	6 50
8 Monkey Wrenches .....	5 00
3 Lidgewood Engines.....	2700 00
1 Hoadley Engine .....	350 00
1 Webb-Watson Engine .....	500 00
6 Sets of Engineer's Boxes.....	24 00

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*Amount carried forward* ..... \$12,027 02

<i>Amount brought forward</i> .....	\$12,027 02
1 Upright Boiler.....	\$250 00
2 Derricks .....	500 00
3 Submerged Pumps .....	400 00
2 Pile Drivers.....	150 00
2 Driving Horses .....	425 00
4 Draught Horses .....	800 00
1 Concord Wagon .....	225 00
1 Light Sleigh .....	55 00
1 Single Truck.....	50 00
4 Single Sleds.....	200 00
5 1-horse Dump Carts.....	400 00
1 Double Truck .....	300 00
6 Blankets .....	19 00
2 Chains .....	1 50
3 Grub Axes .....	2 50
432 Picks.....	324 00
14 Large Chains .....	54 00
25 Feet Small Chain .....	1 25
5 Steam Drill Tool Boxes .....	20 00
12 Spanner Wrenches.....	8 50
1 Large Hose Nozzle.....	12 00
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<i>Amount carried forward</i> .....	\$16,224 77

<i>Amount brought forward</i> .....	\$16,224 77
12 Hydrant Wrenches.....	8 00
1 Set Tap and Dyes .....	15 00
21 Sling Chains .....	10 50
7 Sets Tackles and Falls .....	35 00
110 Gallons Kerosene Oil .....	18 00
2 Neck Yokes.....	8 00
34 Wooden Pails.....	4 00
4 Frost Wedges .....	4 00
3 Pipe Vises.....	45 00
36 Hand Drills .....	7 40
2 Row Boats.....	30 00
7 Sheathing Pulleys .....	21 00
6 Iron Tampers .....	3 60
60 Scoop Handles .....	15 90
9 Cross Cut Saws .....	18 00
24 Iron Wheelbarrows .....	72 00
500 Feet Canada Matched Boards .....	16 00
300 Feet Spruce Matched Boards.....	5 25
6 Large Rolls Canvas.....	250 00
12 Boxes Exploders .....	13 00
4 Man-hole Covers .....	39 98
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<i>Amount carried forward</i> .....	\$16,864 40



<i>Amount brought forward</i> .....	\$16,864 40
7 Track Grates .....	46 65
2 Concord Grates .....	18 00
5 Lengths Iron Pipe .....	120 00
5 Single Harnesses.....	100 00
1 Express Wagon .....	125 00
10,000 Brick .....	64 00
7 Halters .....	7 00
2¼ Tons Soft Coal.....	20 00
1 Stove.....	5 00
1 Work Bench.....	5 00
1 Box Rollers.....	2 50
2 Tool Boxes for Boilers.....	8 00
19 Rolls Tar Paper.....	19 00
2 Paving Hammers.....	3 00
2 Small Tool Houses.....	40 00
8 Sets Wires for Batteries.....	16 00
25 Stone Cutters Points .....	10 00
2 Sets Blacksmith's Tools.....	20 00
4 Anvils .....	21 00
25 Sheave Blocks .....	50 00
4 Kegs Spikes.....	15 00
<i>Amount carried forward</i> .....	\$17,579 95

<i>Amount brought forward</i> .....	\$17,579 95
1 Sewer Trap.....	5 00
40 Feet 2½-inch Hose .....	25 00
8 Oil Cans .....	7 00
6 Paint Brushes.....	2 50
4 Sets Engineer's Tools.....	18 00
1 Tool House and Fixtures .....	3000 00
1 Table .....	8 00
1 2-wheel Dump Cart .....	40 00
2 Boxes Steam Fittings.....	15 00
1 Bolt Cutter .....	8 00
1 Sprinkling Can.....	75
68 Feet Plug Steel.....	10 20
1 Carpenter's Vise.....	10 00
1 Blacksmith's Vise.....	8 00
2 Water Tubs.....	1 00
2 Hand Drills .....	16 00
6 Pairs Short Boots .....	18 00
4 Barber-Stockwell Grates .....	24 00
154 Lantern Globes .....	10 20
7 Edgestone Castings .....	14 00
6 Long Handle Shovels .....	4 00
<i>Amount carried forward</i> .....	\$20,824 60

<i>Amount brought forward</i> .....	\$20,824 60
4 Scythe Snaths .....	8 00
600 Feet Wrought Iron Pipe 1¼ inch.....	75 00
130 Feet Wrought Iron Pipe 1 inch.....	21 00
70 Feet Wrought Iron Pipe 4 inch .....	38 00
3 Ejectors.....	35 00
1 Pile Driver .....	75 00
1 Oil Tank .....	45 00
100 Feet Steam Drill Hose .....	70 00
1 Force Pump.....	17 00
1 2-foot Stillson Wrench.....	2 50
1 18-inch Stillson Wrench.....	2 00
1 12-inch Stillson Wrench.....	1 50
<i>Total</i> .....	<u>\$21,214 60</u>

## SEWER MAINTENANCE.

MONTH.	NUMBER LOADS REMOVED FROM CATCH BASINS.	CONNECTIONS REPAIRED.	SEWERS FLUSHED.
January .....	592	2	...
February .....	390	4	1
March .....	515	7	12
April .....	516	12	1
May .....	275	16	6
June .....	653	14	18
July .....	559	19	21
August .....	456	20	16
September .....	501	23	24
October .....	537	15	19
November .....	533	6	11
December .....	209	9	7
<i>Total</i> .....	5736	147	136

STREET CATCH BASINS BUILT DURING THE  
YEAR 1902.

STREETS.	LOCATION.
Agawam .....	East Side, 6.5 feet north of north line, Moore Street.....
Aa wam .....	West Side, 5 feet north of north line, Moore Street.....
Aiken Avenue.....	East Side, 119 feet north of north line Dans Street.....
Aiken Avenue.....	West Side, 120 feet north of north line, Dans Street.....
• Aiken Street.....	North Side, 1 foot, west of west line, Lakeview Avenue .....
Aiken Street.....	North Side, 86 feet west of west line Lakeview Avenue .....
Aiken Street.....	South Side, 65 feet west of west line, Lakeview Avenue .....
Aiken Street.....	Track, 73.5 feet, west of west line, Lakeview Avenue .....
Arch .....	East Side, 7 feet, south of south line, Middlesex Street .....
Arch .....	West Side, 7 feet south of south line, Middlesex Street .....
Bachelder Place .....	South Side, 182 feet west of west line, Walker Street.....
Bachelder Place .....	North Side, 172 feet west of west line, Walker Street.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1902.—CONTINUED.

STREETS.	LOCATION.
Beacon .....	East Side, 27 feet south of south line, Mort Avenue .....
Beacon .....	West Side, 27 feet south of south line, Mort Avenue .....
Broadway .....	North Side, 232 feet west of west line, Mt. Vernon Street.....
Broadway .....	South Side, 232 feet west of west line, Mt. Vernon Street.....
Broadway .....	North side, 5 feet south of south line, School Street .....
Broadway .....	North Side, 3.5 feet, south of south line, Claire Street.....
Broadway .....	South Side, 179 feet west of west line, Claire Street.....
Broadway .....	Track, 17 feet south of north line, School Street.....
Broadway .....	South Side, 8.5 feet west of east line, Schaffer Street.....
Broadway .....	South Side, 4 feet east of east line, Canal Bridge.....
Broadway .....	South Side, 5 feet west of west line, Canal Bridge .....
Broadway .....	Track, 4 feet, east of east line, Canal Bridge .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1902.—CONTINUED.

STREETS.	LOCATION.
Broadway .....	Track, 10 feet west of west line, Canal Bridge.....
Broadway .....	North Side, 15.5 feet west of west line, Canal Bridge.....
Broadway .....	North Side, 3 feet east of east line, Canal Bridge.....
Broadway .....	North Side, 174 feet west of west line, Claire Street.....
Central .....	West Side, 29.5 feet north of east line, Chapel Street.....
Claire .....	East Side, 4 feet north of north line, Broadway .....
Clitheroe .....	North Side, 11 feet east of east line, Nesmith Street.....
Clitheroe .....	South Side, 6.5 feet east of east line, Nesmith Street.....
D .....	South Side, 8 feet east of west line, Puffer Street.....
Dover .....	East Side, 6.5 feet north of north line, Westford Street.....
Ennell .....	West Side, 5.5 feet north of north line, Lakeview Avenue.....
Ennell .....	West Side, 4 feet north of north line, West Sixth Street .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1902.—CONTINUED.

STREETS.	LOCATION.
Ennell .....	East Side, 6.5 feet north of north line, West Sixth Street .....
Ennell .....	West Side, 10 feet south of south line, Cumberland Road.....
Hall .....	West Side, 8 feet south of north line, Coolidge Street.....
Hall .....	East Side, 5.5 feet north of north line, Coolidge Street.....
Kirk Avenue .....	Centre, 69 feet east of east line, Kirk Street.....
Kirk.....	West Side, 28 feet north of south line, Lee Street.....
Kirk.....	West Side, 101 feet north of north line, Merrimack Street .....
Kirk.....	East Side, 80 feet north of north line, Merrimack Street .....
Kirk.....	East Side, 6 feet north of south line, Lee Street .....
Kirk.....	East Side, 5.5 feet south of north line, Lee Street.....
Kirk.....	West Side, 35 feet south of north line, Paige Street.....
Kirk.....	East Side, 10 feet north of south line, Paige Street.....



STREET CATCH BASINS BUILT DURING THE  
YEAR 1902.—CONTINUED.

STREETS.	LOCATION.
Kirk.....	West Side, 10 feet south of north line, Paige Street.....
Lawrence.....	West Side, 14 feet north of north line, Bridge Street.....
Lawrence .....	South Side, 53 feet west of west line, House No. 1037.....
Ludlam .....	East Side, 1 foot south of south line, Dana Street.....
Ludlam .....	West Side, 1 foot north of north line, Dana Street.....
Ludlam .....	North Side, 491.5 feet east of east line, Hildreth Street.....
Meadowcroft.....	East Side, 6.5 feet north of north line, St. James Street .....
Meadowcroft.....	East Side, 75.5 feet north of north line, Bolt Street.....
Meadowcroft.....	East Side, 7.5 feet north of north line, Bolt Street.....
Meadowcroft.....	East Side, 28 feet south of south line, Exchange Place.....
Meadowcroft.....	West Side, 2.6 feet south of north line, St. James Street .....
Meadowcroft.....	West Side, 28.5 feet south of south line, Exchange Place .....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1902.—CONTINUED.

STREETS.	LOCATION.
Middlesex.....	South Side, 12.5 feet east of east line, Livingston Avenue.....
Middlesex.....	Track, 12.5 feet east of east line, Livingston Avenue .....
Middlesex.....	Track, 12.5 feet east of east line, Livingston Avenue .....
Middlesex.....	South Side, 144.1 feet west of west line, Walker Street.....
Moore .....	North Side, 1 foot west of west line, South Whipple Street .....
Moore .....	North Side, 92.5 feet east of east line, Gorham Street.....
Moore .....	South Side, 1 foot east of west line, Bleachery Street.....
Nesmith .....	Track, 93 feet south of south line, No. 293.....
Nesmith .....	Track, 93 feet south of south line No. 293.....
North .....	North Side, 152 feet east of east line, Central Street.....
North .....	South Side, 336 feet east of east line, Central Street.....
Parkview Avenue....	West Side, 19.5 north of north line, Laurel Street.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1902.—CONTINUED.

STREETS.	LOCATION.
Perry .....	West Side, 343 feet north of north line Sherman Street.....
Phillips .....	East Side, 6.5 feet north of north line, Broadway .....
Phillips .....	West Side, 6.5 feet north of north line, Broadway .....
Pine .....	Track, 30 feet east of east line, Stevens Street.....
Pleasant .....	East Side, 5 feet south of south line, Pond Street.....
Pleasant .....	East Side, 40 feet south of south line, Pond Street.....
Rock .....	North Side, 186 feet east of east line, School Street.....
Rock .....	South Side, 180 feet east of east line, School Street.....
Rock .....	North Side, 372 feet east of east line, School Street.....
Rock .....	South Side, 369 feet east of east line, School Street.....
School .....	East Side, 99 feet north of north line, Rock Street.....
School .....	West Side, 84 feet north of north line, Rock Street.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1902.—CONTINUED.

STREETS.	LOCATION.
Sidney .....	West Side, 7 feet south of south line, Moore Street.....
Sidney .....	East Side, 8 feet south of south line, Moore Street.....
Paige.....	North Side, 9 feet east of east line, John Street.....
Paige.....	South Side, 10 feet east of east line, John Street.....
Stevens.....	Track, 28 feet south of south line, Pine Street.....
Sutherland .....	North Side, 293 feet east of east line, Hildreth Street.....
Sutherland .....	South Side, 296 feet east of east line, Hildreth Street.....
Tenth .....	North Side, 12 feet east of east line, Beacon Street.....
Tenth .....	North Side, 7 feet west of east line, House No. 204.....
Tenth .....	South Side, 7 feet west of east line, House No. 204.....
Tenth .....	South Side, 7 feet east of east line, Beacon Street.....
Wentworth Avenue...	West Side, 30.5 feet north of north line, Laurel Street.....

STREET CATCH BASINS BUILT DURING THE  
YEAR 1902.—CONTINUED.

STREETS.	LOCATION.
Wentworth Avenue...	East Side, 11 feet north of north line, Laurel Street.....
Westford .....	North Side, 7.5 feet west of west line, Walker Street.....
Westford .....	South Side, 3 feet west of west line, Walker Street.....
Westford .....	Track, 17.5 feet west of east line, Wilder Street.....
Westford .....	Track, 21 feet west of east line, Wilder Street.....
West Sixth .....	South Side, 5 feet east of east line, Ennell Street.....

## PERSONAL PROPERTY.

Schedule of Personal Property belonging to the  
Boulevard, December 31, 1902.

1 Sprinkling Cart .....	\$225 00
23 Grass Signs .....	2 50
2 Stone Forks .....	1 25
3 Iron Rakes .....	1 25
6 Hoes.....	3 00
7 Lawn Mowers.....	15 00
4 Scythe Snaths.....	1 00
4 Sickles.....	2 00
2 Sod Cutters.....	1 25
1 Sand Screen.....	2 00
1 15-foot Spirit Level.....	1 50
1 Pair Edging Shears.....	1 50
1 Grind Stone .....	5 00
1 Storehouse .....	250 00
1 Wheelbarrow .....	1 25
2 Wooden Mallets .....	1 00
2 Hand Sprinklers.....	2 00
1 Wooden Maul.....	50
2 Tree Trimmers.....	2 00

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*Amount carried forward* ..... \$519 00

<i>Amount brought forward</i> .....	\$519 00
8 Wooden Rakes.....	3 20
4 Sparrow Brooms.....	1 00
1 Pick.....	60
4 Round Pointed Shovels.....	4 00
2 Square Pointed Shovels.....	1 20
1 Lantern.....	60
3 Sighting Sticks.....	50
1 Wind Mill.....	2500 00
1 Tool Box.....	4 00
<i>Total</i> .....	<u><u>\$3034 10</u></u>

## BOULEVARD MAINTENANCE.

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April.....	\$ 95 75
May.....	195 82
June.....	178 17
July.....	247 58
August.....	255 70
September .....	152 88
October .....	128 83
November .....	159 13
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<i>Total</i> .....	\$1413 86



TABLE SHOWING THE SEWERS BUILT DURING THE YEAR 1902, LENGTH, SIZE, MATERIAL, WHEN BEGUN, FINISHED AND COST.

STREETS.	Size and Length.			Materials	Cubic Yards Ledge.	Average Depth.	Manholes.	Begun.	Finished.	Cost.	Total Length.
	10in	12in	15in 24in								
Agawam .....		320		Portland Pipe.		6.9	1	June 6.....	June 9 .....	\$379 46	320
Aiken Ave. and Essex St. 1134ft-27 x 18in .....				Brick Portland Pipe .....	1253	11.4	8	June 4.....	Dec. 19.....	19,962 73	1658
Aiken St. ....		524		Portland Pipe.		9.5	3	Sept. 26....	Oct. 8.....	919 30	518
Auburn and Gorham .....		518		Portland Pipe.		9.5	2	Oct. 9.....	Oct. 16....	578 95	174
Bowden.....		174		Portland Pipe.		9.0	3	May 1.....	May 14....	1108 44	654
Boynton .....		363		Portland Pipe.		9.8	2	May 19.....	June 3.....	1141 68	363
Brunswick.....		416		Portland Pipe.	36	8.2	2	June 25....	July 15....	1169 87	416
C .....	49			Portland Pipe.		5.0	...	May 7.....	May 8.....	58 00	49
Carter and Bleachery.....		701		Portland Pipe.		7.6	2	Oct. 16.....	Nov. 1.....	1153 25	701
Central (Rebuilt).....		177		Portland Pipe.		11.5	...	July 8.....	July 14....	536 68	177
Central & Chapel (Rebuilt, completed) 360ft 20x30in .....				Brick .....		13.8	3	Nov. 4, '01	July 9, '02..	3437 61	360
Chase .....		334		Portland Pipe.		9.5	1	April 29....	May 6.....	550 00	334
Clitheroe .....		35		Portland Pipe.		8.5	1	May 7.....	May 13....	108 95	35
Coburn .....	163			Portland Pipe.		5.3	1	Dec. 1.....	Dec. 8.....	244 48	163
Court (Unfinished) 150ft- 45x30in.....				Cement, Con- crete & Brick.		13.1	...	Oct. 30....	Unfinished..	5100 57	150

TABLE SHOWING THE SEWERS BUILT DURING THE YEAR 1902.—CONTINUED.

	660		Portland Pipe.	9.3	2	July 30.....	Sept. 5.....	\$1993 20	660
Dunfey .....	815		Portland Pipe.	8.3	3	Sept. 30 ....	Oct. 25.....	1879 90	815
Durant and Beacon.....	233		Portland Pipe.	10.1	1	July 24 .....	Aug. 8.....	497 49	233
Emery .....	345		Portland Pipe	9.5	2	July 16 .....	July 29.....	940 10	345
Falmouth.....	300		Portland Pipe.	8.9	1	Sept. 8.....	Sept. 16.....	635 93	300
Grace .....	300		Portland Pipe.	9.7	1	Sept. 15 ....	Sept. 25.....	621 19	300
Hawthorn .....	61		Portland Pipe.	9.5	1	July 15.....	July 23.....	187 42	61
Mansur .....	260		Portland Pipe.	9.8	1	May 14.....	May 21.....	598 05	260
Meadowcroft .....									
Meadowcroft (Main, com- pleted) 128-ft, 36in, brick			Brick .....	18.0	5	Aug. 27, '01	Nov. 19, '02	33,830 77	1284
Middlesex.....	258		Portland Pipe.	10.5	2	June 17 ....	June 25.....	661 48	258
Mt. Hope .....	349		Portland Pipe.	9.7	1	July 25.....	Oct. 2 .....	2887 48	349
Perry.....	338		Portland Pipe.	10.8	3	May 6.....	May 16.....	897 40	338
Raymond.....	318		Portland Pipe.	7.9	1	June 11 ....	June 20.....	618 96	318
Sanborn .....	139		Portland Pipe.	5.0	...	Nov. 28 ....	Dec. 1 .....	158 13	139
St. James.....	647		Portland Pipe.	8.8	3	May 20 ....	June 6 .....	1296 14	647
Shaffer 64ft, 8in .....			Portland Pipe.	5.3	2	May 5 .....	May 7 .....	117 55	64
South Common (Rebuilt)..		558	Portland Pipe.	8.1	3	May 7 .....	June 9 .....	2383 27	558
Tanner (Rebuilt) 133ft, 24in, Brick.....			Cement, Con- crete & Brick.....	14.6	...	Oct. 27 ....	Jan. 2, '03...	3236 66	133
Tenth .....	772		Portland Pipe.	9.4	3	July 15.....	July 30.....	1549 93	772
Western Ave.(Completed), 50ft. 24in, brick overflow			Brick .....	15.0	1	June 30, '01	Dec. 24, '01	1092 85	50
Lineal feet of sewers laid in 1902, 1906, or									
Laid previously.....	2.63 miles		Central and Chapel Sts., sewer, completed 1902.				Total length	684 ft.	Total cost... \$ 6963 98
	85.53 "		Meadowcroft St., sewer, completed 1902.				"	2453 ft.	" " 54,457 03
Deduct 868 lineal feet of sewers rebuilt	88.16 "		Western Ave, School & Rock Sts, completed 1902.				"	1635 ft.	" " 17,814 73
Length of sewers Jan 1, 1903 .....	16 "								
	88.00 "								

## BRIDGES.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Aiken .....	Merrimack River.....	Iron .....	City .....
Aiken .....	Northern Canal .....	Iron .....	City .....
Bridge .....	Merrimack River.....	Iron .....	City .....
Bridge .....	Eastern Canal.....	Wood .....	Props. of the Locks and Canals.....
Broadway.....	Pawtucket Canal.....	Wood .....	Props. of the Locks and Canals.....
Broadway.....	Western Canal.....	Stone .....	City .....
Cabot .....	Northern Canal .....	Wood .....	City .....
Cambridge .....	River Meadow Brook.....	Wood .....	City .....
Central.....	Pawtucket Canal .....	Wood .....	Props. of the Locks and Canals.....
Chelmsford .....	B. & M. R. R. (Lowell System).....	Iron .....	Boston & Maine Railroad .....

# BRIDGES.—CONTINUED.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Church .....	Concord River.....	Stone .....	City .....
Congress .....	River Meadow Brook.....	Wood .....	City .....
Dutton .....	Western Canal.....	Wood .....	City .....
East Merrimack .....	Eastern Canal.....	Wood .....	Props. of the Locks and Canals.....
East Merrimack .....	Concord River.....	Iron & Stone..	City .....
Gorham.....	River Meadow Brook.....	Wood .....	City .....
Hale .....	B & M. R. R. (Lowell System).....	Iron .....	Boston & Maine Railroad .....
Hall (Private st).....	Western Canal .....	Wood .....	Lawrence Manufacturing Co and Suffolk Mills .....
Howard .....	River Meadow Brook.....	Stone.....	City .....
Jefferson .....	Western Canal .....	Iron .....	City .....

## BRIDGES.—CONTINUED.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Lawrence.....	Concord River.....	Wood .....	City .....
Lawrence.....	Wamesit Canal .....	Wood .....	Wamesit Power Co.....
Lincoln .....	River Meadow Brook.....	Wood .....	City .....
Lundberg .....	B. & M. R. R. (Lowell System) ..	Iron .....	City .....
Market.....	Merrimack Canal.....	Wood .....	City .....
Market.....	Western Canal .....	Wood .....	City .....
Merrimack .....	Merrimack Canal.....	Stone & Brick	Props. of the Locks and Canals.....
Merrimack .....	Western Canal .....	Wood .....	Props. of the Locks and Canals.....
Moody .....	Western Canal.....	Wood .....	City .....
Moody .....	Merrimack River.....	Iron .....	City .....

## BRIDGES.—CONTINUED.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Newhall.....	River Meadow Brook.....	Iron .....	City .....
Pawtucket .....	Northern Canal .....	Wood .....	Props. of the Locks and Canals.....
Pawtucket .....	Pawtucket Canal .....	Wood .....	Props. of the Locks and Canals.....
Plain .....	River Meadow Brook.....	Wood .....	City .....
Rogers.....	Concord River.....	Stone .....	City .....
School .....	Merrimack River.....	Iron .....	City .....
School .....	Northern Canal .....	Brick & Stone.....	Props of the Locks and Canals.....
School .....	Pawtucket Canal.....	Wood .....	Props. of the Locks and Canals.....
Suffolk.....	Northern Canal .....	Wood .....	Props. of the Locks and Canals.....
Thorndike .....	Pawtucket Canal .....	Wood .....	Props. of the Locks and Canals.....

## BRIDGES.—CONTINUED.

STREETS.	LOCATION.	MATERIAL.	MAINTAINED BY
Wilder .....	B. & M. R. R. (Lowell System) ..	Wood & Iron ..	Boston & Maine Railroad and City .....
Worthen .....	Western Canal .....	Wood .....	City .....



## Lowell, Mass., 1902.

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Population .....	101,959
Valuation .....	\$71,903,757
Area .....	12.4 square miles
Miles Accepted Streets .....	124.96
" Paved Streets .....	19.15
" of Granite Block .....	15.38
" " Brick .....	0.18
" " Asphaltina .....	1.66
" " Asphalt .....	1.93
" " Bituminous .....	0.93
" " Macadam .....	26.00
" " Concrete .....	0.16
" " Sewers .....	88.00
Cost of Sewer System .....	\$2,709,652.02
Number Catch Basins .....	3228
Wooden Bridges .....	25
Iron Bridges .....	9
Stone Bridges .....	6
Iron Bridges over Merrimack River .....	4
Stone Bridges over Concord River .....	2
Wood Bridge over Concord River .....	1
Iron and Stone Bridge over Concord River .....	1









# ANNUAL REPORT

OF THE

## CHIEF ENGINEER

OF THE

# FIRE DEPARTMENT

OF THE

## CITY OF LOWELL

For the Year 1902



LOWELL, MASS.,  
BAKER PRINTING COMPANY

1903



# REPORT

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CHIEF'S OFFICE, PALMER ST. ENGINE HOUSE,

LOWELL, January 1, 1903.

*To the City Council of the City of Lowell :*

GENTLEMEN :—In accordance with the requirements governing the Fire Department, it becomes my duty, as Chief Engineer to present to you the annual report of the Fire Department of the City of Lowell for the year ending December 31, 1902

The report will be found to contain statements in detail, embracing the amount of expenditures, a register of the department, with age, residence and occupation of each member, a record of all fires and alarms which have occurred during the year, and the cause thereof, with the names of the owners or occupants, the loss and insurance, as nearly as could be ascertained, and such

information as is thought proper for your consideration,

The following statement will show the receipts and expenditures :

### RECEIPTS

Appropriations ..... \$128,600 00

### EXPENDITURES

Pay Rolls.....	\$104,576 38
Water Works.....	386 75
Hose, Pipes and repairs of same.....	1,542 45
Telephone.....	254 77
Express and Freight.....	44 31
Horses and use of same.....	2,501 51
Shoeing.....	1,732 81
Veterinary and Medicines.....	266 15
Hay, Straw and Grain.....	6,827 75
Harness and Repairs of same.....	486 56
Furniture, etc.....	423 02
Coal and Wood.....	1,047 53
Gas.....	1,217 08
Printing.....	112 25
Repairs on Apparatus and Houses..	4,093 75
Laundry.....	117 59
Cloth, Buttons and Badges.....	169 38
Fire Alarm, repairs, etc.....	555 86
Oil, Sponges, Brooms, etc.....	1,194 24

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Total Expenditures for the year	\$127,550 14
Transferred to Gen'l Treasury Fund	1,049 86

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\$128,600 00

## SALARIES OF MEMBERS OF FIRE DEPARTMENT.

Chief Engineer.....	\$2,000 00	per annum
First Assistant Engineer .....	1,500 00	“ “
Other Assistant Engineers.....	400 00	“ “
Foreman of the companies (call).....	300 00	“ “
Call Men.....	200 00	“ “
Permanent Men.....	2 75	“ day
Foremen of Companies (permanent)...	3 00	“ “
Engineers of Steamers (permanent)...	3 00	“ “

The department is divided into two classes, Permanent and Call. The Permanent force consists of

Chief Engineer,	25 Drivers,
1 1st Assistant Engineer	15 Laddermen,
1 Fire Alarm Operator,	6 Engineers of Steamers,
28 Hosemen,	1 Driver for the Chief Engineer.
5 Patrolmen,	

A total of 83, of which 15 are Captains and 14 Lieutenants.

The Call force consists of

3 Assistant Engineers,	65 Hosemen,
25 Laddermen,	

A total of 93, of which there are 1 Captain and 2 Lieutenants.

This makes a total of 176, divided into Companies as follows :

- 6 Steam Fire Engines, with Hose Wagons.
- 5 Horse Hose Companies.
- 4 Hook and Ladder Companies, 2 with Chemical Engines attached.
- 1 Protective Company.



The changes in the force during the year have been as follows :

Appointed on Permanent force .....	5
Appointed on Call force.....	6
Suspended .....	1
Discharged.....	4
Transferred .....	1

The apparatus is kept in the best possible condition and consists at present of six Engines, four one-horse and seven two-horse Hose Wagons, one Babcock Aerial Truck and three Trucks of other patterns, two Chemical Engines, one Hale Water Tower, one Patrol Wagon and Sleigh, fully equipped, six Hose Pungs, eight Fuel Wagons, two Wagons and one Sleigh for use on fire alarm, one Wagon and Sleigh for Chief's use, one Wagon for Assistant Chief's use and sixteen fire extinguishers. In reserve there is three two-horse Hose Reels.

#### FIRE-ALARM.

This branch of the service has been maintained in most excellent condition by the operator, Mr. H. C. Fernald, and has given perfect alarms the past year.

There have been one hundred and sixty-four alarms given from signal boxes; and No School signal has been given fifteen times the past year.

May 21, 12.06 P. M., sixty-two blows were given

for the death of Mayor Dimon. May 22, 3.40 P. M., seventy blows were given during the removal of the body of Mayor Dimon from his house to St. Anne's Church. May 23, 7 A. M., twenty-one blows were given during the removal of the body of Mayor Dimon from the church to the cars.

Connected with the circuit there is one ten-circuit non-interfering repeater, one ten-circuit cutout and testing switchboard, one slate protector, twelve galvanometers ten bell-strikers, fifteen large gongs for engine houses, eight small gongs, seventeen indicators, sixteen electro-magnets and connections for opening stall doors, twenty-three electric light current protectors, one hundred and seventeen public and eight private signal boxes, one hundred miles of wire, the whole supplied with a storage battery of four hundred cups.

There is also one large gong and indicator combined in the Police Station, one large gong at Pumping Station, Merrimack Square, Tower's Corner and near the Northern Depot.

An additional appropriation will be needed this year to extend the placing of wires underground.

#### TELEPHONE.

There are connected with this system twenty stations, consisting of transmitter, telephone bell and battery; there are also twenty-two tap bells for the

rooms of the Engine Houses, and about forty miles of wire owned by the city, under the care of the Fire Alarm Operator, except the telephones and transmitters, which are leased from the Telephone Company. The ringing line is supplied by a storage battery of one hundred and ten cups.

#### HORSES AND HARNESSSES.

There are fifty-four horses in the service of the department. Ten new ones have been purchased the past year to take the place of ten that had passed their usefulness for this department. There are twelve sets of double, ten sets of three-horse hitch harnesses and four single swinging harnesses of the Berry and Hale patents.

#### PROTECTIVE DEPARTMENT.

This department is maintained by the city and consists of six permanent men. They responded to one hundred and ninety-four alarms, in service one hundred and seventy-two hours; spread four hundred and four covers, and used one hundred and seventeen extinguishers.

Chemical Engine C, attached to Truck 2, has used fifty-five tanks. Chemical B, attached to Truck 3, has used 56 tanks.

#### HYDRANTS.

During the year sixteen new post hydrants have

been added, and one discontinued, making a total of eleven hundred and seventy-two; the locations are as follows: Billings, near Barker Ave.; Dingwell, Falmouth, Ford, two on Jackson Street; Lakeview Ave.; two on Moody, near Textile School; Centre of Court Yard Textile School; New York, Princeton; Wellington, near Junction Boulevard; Queen, Wood; Belmont Ave., opposite White's residence on the high service; one on Carpet Lane discontinued.

#### HOSE.

The department will need two thousand feet of new hose the present year.

#### FIRES AND LOSSES.

The whole number of alarms of fire during the year ending December 31, 1902, was four hundred and thirteen (413). One hundred and sixty-four were given from signal boxes, one hundred and thirty-one still, one hundred and three telephone and fifteen automatic alarms. The No School signal was given fifteen times. In addition there were sixty-seven reported alarms. There were two hundred and thirty fires extinguished by chemicals and ninety-seven where water was used; the remaining number were extinguished by other means, or had been put out before the arrival of the department.

The whole amount of loss was \$110,843.06; insurance, \$770,361.73; insurance paid, \$108,475.64; loss above insurance, \$2,367.42; the valuation was \$1,182,392.99.

There have been eleven alarms for fires out of the city, to which some part of the department has responded the past year, for which no insurances are kept; Tewksbury 4, Chelmsford 2, Dracut 3, South Lowell and Westford 1.

The most notable fire that occurred the past year was in a three story frame building in Ayers City, occupied by the Criterion Knitting Co., June 20, at 2.47 P. M., a still alarm was sent to Hose 9, on arriving at the fire the Captain found more fire than he could take care of, he immediately ordered Box 34 to be pulled in. Before the other Companies arrived the mill was doomed. The fire caught in the boiler room, supposed from shavings, and got under good headway before discovered. A very strong wind was blowing, sending sparks in every direction, setting fire to the roofs of thirteen (13) frame dwellings, which gave the Department all they could attend to for a short time. The loss on the buildings and contents was \$25,655.29; the loss on the other thirteen buildings was \$937.10.

There were only twelve other fires where the loss was \$1000 and over. January 6, J. Harriman's Novelty Suspender Works, loss \$23,006.38; January 22, E. Cawley's Laundry Building, occupied by A. Jean, loss \$2,333.00; March 7, L. A. Fisher's building occupied by J. N. Carter, loss \$2,210.30; March 10, J. K. Fellows' building occupied by O'Donnell and

Gilbride, loss \$28,249.91 ; March 23, G. N. Osgood's building, several occupants, \$2,357.54 ; May 11, W. A. Ingham's building on Middlesex Street, several occupants, loss \$4,216.88 ; May 20, Chas. A. Stott block occupied by J. D. Helliker, loss \$1,183.55 ; June 14, Boston and Maine R. R. Freight Shed and car of cotton, loss \$1,021.00 ; June 20, Criterion Knitting Co. loss \$25,655.29, additional loss on the thirteen dwellings \$937.10 ; July 31, J. Mullin's Hay and Grain Store, loss \$1,147.76 ; August 20, E. Hapgood's Mattress Mfg., Lawrence Street, loss \$1,215.43 ; September 21, City Rifle Range, situated in Dracut, loss \$3,000.00 ; December 21, M. Corbett building on Gorham Street, occupied by H. C. Cooper and A. McCann, loss \$2,559.33 ; making a total loss of the thirteen fires \$99,093.47 ; the insurance was \$295,882.00 ; insurance paid, \$96,614.67 ; valuation, \$353,251.99.

There has been six incendiary, and six supposed incendiary fires the past year ; five of them were investigated by the State Fire Marshall ; sufficient evidence to cause an arrest was found only on one of them. June 21-22, five attempts within twenty-four hours were made to burn the Old City Hotel Property, owned by W. A. Ingham and occupied by Mrs. J. E. Fitzgerald. While suspicion pointed to certain persons, enough evidence could not be found to arrest them. December 10, 9.40 A. M., fire was discovered in a store on Merrimack Street, owned by Thomas



G. Gerrish, and occupied by Post and Rosenthal, as a tea, coffee and crockery store; strong odor of kerosene oil and the finding of some straw with kerosene oil on it, caused the arrest of Michael Rosenthal and his wife Lena; they were tried in the Police Court and sent to the Grand Jury in February.

There has been sixty-seven fires where the Department did not attend, the loss was, \$15,304.89; insurance, \$13,358,550.00; insurance paid, \$15,304.89; valuation, \$16,543,200.00.

For further particulars in regard to fires and losses I refer you to the tables annexed to this report.

The following will show the causes of different alarms as near as could be ascertained.

Curtains set by gas jets. . . . .	5	Combustion . . . . .	8
Meat and lard on stove. . . . .	4	Naphta explosion . . . . .	1
Children and matches. . . . .	17	Exposure . . . . .	2
Brush . . . . .	8	Tar kettle . . . . .	1
Chimneys . . . . .	38	Defective motor . . . . .	2
Hot ashes . . . . .	11	Fireworks . . . . .	1
Out of the city . . . . .	11	Gas leak . . . . .	2
Clothes in closet . . . . .	3	False alarms . . . . .	3
Defective chimneys . . . . .	8	Fire crackers . . . . .	2
Clothes and hot stove . . . . .	10	Supposed incendiary . . . . .	6
Rubbish . . . . .	3	Alarms for the same fire. . . . .	15
Rats and matches . . . . .	8	Oil lamp explosion . . . . .	13
Sparks set roof . . . . .	28	Electric wires . . . . .	4
Unknown . . . . .	11	Overheated thermostats . . . . .	8
Thawing pipe . . . . .	8	Overheated smoke flue. . . . .	6
Sparks set shavings . . . . .	4	Grass . . . . .	25

Cigar stubs.....	12	No school.....	15
Beds, smoking in.....	4	Defective baker's oven.	1
Stove smoking.....	10	Drying plaster.....	3
Oil stoves.....	11	Boiler smoking.....	2
Careless use of matches.	7	Candle set wood .....	3
Incendiary.....	6	Second alarms.....	1
Dump .....	26	Gas explosion.....	1
Fumigating .....	1	Gas stove.....	1
Overheated Boiler.....	2	Careless smoking.....	5
Friction in dust box...	1	Lamp set curtain.....	1
Water Leak.....	3	Steam pipe.....	1
Overheat Fire Place...	1	Rekindled.....	7
Spark from forge.....	1	Friction in loom.....	1
Smoke stack set roof..	1	Waste paper.....	2
Testing automatics....	1	Tinsmith fire pot.....	1
Spark set bridge.....	2	Spark set sawdust.....	5
Overheat fire forge....	1	Asphalt kettle .....	1
Gas jet set clothing...	2	Hot coals set floor.....	1
Gas jet set trimmings..	3		

Of the buildings in which these fires occurred, two hundred and sixty-nine were of wood and sixty-two of brick and stone.



## WOODEN BUILDINGS

BLOCKS COTTAGES, ETC.		MILLS.	CHURCHES.	SCHOOL- HOUSES	SHEDS.	STABLES
1	Story, 1,883	1 Story, 27	23	28	2,251	2,258
1 1-2	" 2,217	2 " 24				
2	" 3,757	3 " 49				
2 1-2	" 2,083	4 " 49				
3	" 946	5 " 5				
4	" 133					
5	" 21					
11,040		154	23	28	2,251	2,258

Total number of wooden buildings,	-	-	-	-	-	-	15,754
An increase during the past year of	-	-	-	-	-	-	195

## BRICK BUILDINGS

BLOCKS, ETC.			MILLS.			CHURCHES.	SCHOOL- HOUSES
1	Story,	61	1	Story,	21	21	22
2	“	120	2	“	64		
2 1-2	“	68	3	“	73		
3	“	212	4	“	48		
4	“	184	5	“	23		
5	“	34	6	“	26		
6	“	6	6 1-2	“	7		
685			262			21	22

Total number of brick buildings, - - - - - 990  
 An increase during the past year of - - - - - 7

## STONE BUILDINGS.

Churches, 6; 1 Story, 2; 2 Story, 26; 3 Story, 8; 4 Story, 6; 3 Iron.

Total number of iron buildings.....	3
Total number of stone buildings.....	48
Total number of buildings of all descriptions.....	16,795
An increase during the past year of.....	202

Some of these blocks have from four to twenty tenements.

The following table shows the number of alarms of fire each month:

January, 41; February, 27; March, 31; April, 42; May, 36; June, 57; July, 32; August, 17; September, 21; October, 34; November, 29; December, 46; Total 413.

# SERVICE OF THE DEPARTMENT FOR 1902

	Number of alarms attended	Number of hours worked	Feet of hose laid	Hours of hydrants in use	Number of Extinguishers used	Number of chemical tanks used	Feet of ladders raised	Hours engines worked	Number of covers used
Engine									
"	57	36	3,900	12	12			2 $\frac{1}{2}$	
"	68	54	9,300	14	14			2 $\frac{1}{2}$	
"	132	112	6,800	23	19			2	
"	99	76	2,650	5	21			2 $\frac{1}{2}$	
"	44	45	3,350	6	22		30		
"	92	90	4,350	18	7				
"	98	78	7,700	9	18				
"	98	62	8,850	16	25				
"	51	48	4,900	8	13				
"	78	57	5,800	3	15				
"	44	33	3,800	2	15				
Truck									
"	35	31							
"	96	91							
"	155	145				55	450		
"	57	46				56	1,341		
"	194	172					1,290		
Protective					117		315		
							30		
		1,176	61,409	121	298	111	3,856	9 $\frac{1}{2}$	408

There has been one death and nine men slightly injured during the past year: Edward F. Grady, a call man on Hose 9, died November, 6, he joined the Department May, 1893.

The following is a list of the injured: Captain C. F. Hemenway, A. E. Kidder and B. M. Simpson, of Hose 10, injured by the overturning of their Hose Reel July 4; Captain J. Baxter, Hose 9; J. H. Tracy Engine 4; T. O. J. Townsend, Truck 3; M. C. Rowell, Protective Company; Lieutenant E. O'Connell and F. H. Welch of Hose 7.

There were six deaths by burning during the past year. June 22, Yoonne Gondreau, Salem Street, nine months old, playing with matches, sets clothes on fire; October 27 Mrs. Wm. Golden and daughter Jennie, 1 year and 10 months old, Mt. Hope Street, oil lamp exploded, setting clothes on fire; November 3, Miss Ellen Printy, Gorham Street, lighting gas in window with lighter, set clothes on fire; Dec. 9, Hudson Street, Nina Franklin 9 months old, her sister Margaret, 3 years old, playing with matches set lounge on fire; Margaret died December 23, from the effects of her burns.

#### LOWELL FIREMEN'S FUND ASSOCIATION.

This benevolent association was organized December 17, 1885 for the purpose of furnishing relief to such of its members as should receive injuries while in the discharge of their duties. The income is

derived from an annual assessment upon each member and by donations from citizens and others, and in behalf of the members of the association, I would return thanks to all those who have aided us in the past.

The following donations have been received the past year :

Town of Dracut.....	\$ 75 00
Town of Chelmsford .....	25 00
Town of Tewksbury .....	25 00
O'Donnell and Gilbride.....	50 00
W. H. Wiggin .....	25 00
F. M. Bill and Co. ....	25 00
Receipts on ball.....	1,038 03

Total ..... \$1,263 03

The following statement shows the amount standing to the credit of the association, December 31, 1901.

Balance on hand Dec. 31, 1901.....	\$24,634 29
Cash received to Dec. 31, 1902.....	2,786 90

Total.....	\$27,421 19
Paid out to Dec. 31, 1902.....	650 05

On hand Dec. 31, 1902.....	\$26,771 14
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In conclusion I wish to thank my Board of Engineers, officers and members of the department for their promptness and efficiency in the performance of their duties. To the Mayor and City Council, Clerk, Auditor, Treasurer, Superintendents of the

different departments, and all others who have in any way assisted me in the discharge of my duties, I extend my sincere thanks.

Respectfully submitted,

EDWARD S. HOSMER,

Chief of Fire Department.

# **FIRE DEPARTMENT.**

**JANUARY 1, 1903.**

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## **CHIEF ENGINEER.**

EDWARD S. HOSMER    } Office, Palmer St. Engine House  
                              } Residence, 202 Westford Street

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## **FIRST ASSISTANT ENGINEER.**

James F. Norton    .    .    .    Residence, 22 Ames Street

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## **ASSISTANT ENGINEERS.**

George F. Salmon    .    Residence, 95 Mt. Washington Street

Edward Meloy    .    .    Residence, 30 Fort Hill Avenue

Henry W. Burton    .    .    Residence, Kimball Avenue

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## **CHIEF'S DRIVER.**

H. B. Sanders    .    Residence, Palmer Street Engine House

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## **TELEGRAPH OPERATOR.**

Henry C. Fernald    .    Residence, Palmer Street Engine House

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## **COMMITTEE ON FIRE DEPARTMENT, 1902.**

Alderman Meloy and Burns; Councilmen Swann, Park and Donahoe.



## ENGINE COMPANY No. 1.

## TWELVE MEMBERS.

HOUSE ON GORHAM STREET

Badge.	Rank.	Name.	Age.	Occupation.	Joined	Dept.	Residence.
15...	Captain.....	C. D. Foley.....	48	Carpenter.....	June, 1879....	31 Newhall St.	
11...	Lieutenant...	T. W. Collins.....	46	Permanent.....	April, 1884....	Engine House	
1...	Clerk.....	Geo. W. Lovett....	52	Driver, Wagon.	Dec., 1875....	Engine House	
119...	Engineer.....	J. W. Jantzen.....	49	Permanent.....	Feb., 1884....	Engine House	
12...	Driver.....	J. J. Lowney.....	34	Driver, Engine	July, 1892....	Engine House	
17...	Ass't Engineer.	T. McNamara.....	58	Machinist.....	April, 1884....	740 Law'nce St.	
19...	Hoseman.....	J. A. Shea.....	27	Plasterer.....	Dec., 1897....	28 Kidder St.	
16...	Hoseman.....	T. Carruthers.....	57	Stamper.....	April, 1884....	Engine House	
14...	Hoseman.....	P. Curtin.....	50	Moulder.....	May, 1874....	43 Abbot St.	
13...	Hoseman.....	J. E. Burns.....	33	Expert.....	Sept., 1897....	14 Carter St.	
18...	Hoseman.....	Robt. Oatley.....	41	Laborer.....	Dec., 1897....	82 Blossom St.	
10...	Hoseman.....	Wm. H. Kirkpatrick	33	Machinist.....	Jan., 1897....	Engine House	
...	Substitute.....	J. H. Gray.....	37	Lather.....	Feb., 1899....	23 Ellsworth St	
...	Substitute.....	M. J. O'Connor....	38	Clerk.....	Jan., 1900....	900 Gorham St.	

## ENGINE COMPANY NO. 2.

## TWELVE MEMBERS.

## HOUSE ON BRANCH STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
2...	Captain.....	H. Boynton.....	51	Permanent.....	April, 1869....	Engine House
21...	Lieutenant.....	F. B. Akers.....	44	Permanent.....	May, 1878....	Engine House
20...	Clerk.....	W. H. Oke.....	37	Driver, Wagon.....	Dec., 1893....	Engine House
29...	Engineer.....	C. S. Hibbert.....	56	Permanent.....	Nov., 1865....	Enging House
90...	Driver.....	F. Boynton.....	41	Driver, Engine.....	Dec., 1882....	Engine House
28...	Hoseman.....	A. Jamieson.....	44	Painter.....	Dec., 1894....	112 Shaw St
22...	Ass't Engineer	H. R. Morrison....	43	Machinist.....	July, 1882....	342 Westford St
23...	Hoseman.....	A. F. Prescott.....	25	Machinist.....	June, 1899....	Pine St.
27...	Hoseman.....	A. S. Maynard.....	49	Carpenter.....	Nov., 1884....	Marshall St.
25...	Hoseman.....	C. A. Bugbee.....	41	Painter.....	Dec., 1894....	62 Grove St.
24...	Hoseman.....	F. H. Harris.....	26	Tinsmith.....	Aug., 1899....	Engine House
26...	Hoseman.....	C. E. Alway.....	38	Carpenter.....	Feb., 1889....	3 East Pine St.
...	Substitute.....	Thos. R. Knight...	31	Carpenter.....	July, 1900....	11 Woodbury St
...	Substitute.....	Gilman S. Alcott...	20	Compositor.....	June, 1902....	Queen St.

## ENGINE COMPANY No. 3.

## TWELVE MEMBERS.

HOUSE ON PALMER STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
30..	Captain	F. Hoyt	54	Permanent	Aug., 1873	Engine House
31..	Lieutenant	O. A. Knapp	38	Permanent	July, 1889	Engine House
32..	Clerk	L. C. Brainard	44	Driver, Wagon	Feb., 1889	Engine House
33..	Engineer	M. I. Collins	47	Engineer	April, 1888	Engine House
133..	Driver	B. C. Reed	49	Driver, Engine	Aug., 1885	Engine House
37..	Hoseman	F. E. Roark	53	Lighter	July, 1875	Fifth St.
38..	Hoseman	G. T. Halstead	45	Permanent	Nov., 1883	Engine House
35..	Hoseman	J. D. Ismond	35	Packer	Mar., 1894	280 High St.
32..	Hoseman	F. E. Turner	39	Clerk	July, 1892	27 Ralph St.
36..	Hoseman	A. E. Dearth	42	Machinist	June, 1891	12 Broadway
34..	Hoseman	A. Dore	26	Carpenter	Feb., 1898	8 Oak St.
39..	Hoseman	F. A. Farrell	34	Plumber	April, 1898	Market St.
..	Substitute	N. L. Page	21	Machinist	June, 1902	..
..	Substitute	J. J. Rinchartt	31	Clerk	Dec., 1902	15 Sixth St.

# ENGINE COMPANY No. 4.

## TWELVE MEMBERS.

HOUSE ON HIGH STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined	Dept.	Residence.
40...	Captain.....	J. E. Burns.....	42	Permanent....	Feb., 1882....	Engine House	Engine House
42...	Lieutenant....	J. E. Sullivan.....	50	Permanent....	May, 1883....	Engine House	Engine House
4...	Clerk.....	W. King.....	60	Driver, Wagon.	Nov., 1863....	Engine House	Engine House
41...	Driver.....	J. J. Harrington....	52	Driver, Engine	Nov., 1869....	Engine House	Engine House
134...	Engineer.....	F. F. Prescott.....	43	Engineer.....	July, 1893....	Engine House	Engine House
44...	Hoseman.....	M. Connors.....	52	Plasterer.....	Mar., 1883....	Pleasant St.	Pleasant St.
43...	Hoseman.....	W. T. Dolan.....	31	Plumber.....	Nov., 1894....	Engine House	Engine House
46...	Hoseman.....	J. H. Tracy.....	36	Clerk.....	Sept., 1897....	Fayette St.	Fayette St.
48...	Ass't Engineer	M. E. Eagan.....	39	Finisher.....	Dec., 1898....	Pleasant St.	Pleasant St.
49...	Hoseman.....	B. F. Freeman.....	58	Permanent....	Jan., 1893....	Engine House	Engine House
47...	Hoseman.....	J. M. G. Burns.....	30	Clerk.....	July, 1897....	Pleasant St.	Pleasant St.
45...	Hoseman.....	J. E. Brown.....	29	Clerk.....	Aug., 1897....	31 Fort Hill ave	31 Fort Hill ave
...	Substitute.....	Patrick Mooney....	26	Machinist.....	June, 1902....	61 Pleasant St.	61 Pleasant St.
...	Substitute.....	Thos. Bryan.....	31	Leather Worker	July, 1899....	Concord St.	Concord St.

## ENGINE COMPANY No. 5.

## TWELVE MEMBERS.

HOUSE MAMMOTH ROAD, PAWTUCKETVILLE.

Badge.	Rank.	Name.	Age.	Occupation.	Joined	Dept.	Residence.
152...	Captain.....	E. W. Bartlett.....	55	Permanent.....	May, 1883....		Engine House
52...	Lieutenant.....	J. H. Joyce.....	60	Permanent.....	June, 1864....		Engine House
5...	Clerk.....	G. F. Flint.....	41	Driver, Wagon.....	Aug., 1892....		Engine House
51...	Engineer.....	C. L. Brown.....	48	Engineer.....	Jan., 1893....		Engine House
53...	Ass't Engineer.....	J. P. Fowler.....	54	Carpenter.....	May, 1883....		Mammoth Road
55...	Hoseman.....	E. F. Farrell.....	27	Plumber.....	Dec., 1898....		Sixth Ave.
50...	Driver.....	S. S. Page.....	54	Driver, Engine.....	May, 1888....		Engine House
58...	Hoseman.....	J. J. Frazier.....	46	Moulder.....	June, 1892....		Starbird St.
56...	Hoseman.....	R. B. Seeton.....	53	Brass Finisher.....	Aug., 1892....		Third Ave.
54...	Hoseman.....	J. J. McMannimon.....	31	Machinist.....	Jan., 1893....		Second Ave.
59...	Hoseman.....	A. H. Vinning.....	57	Carpenter.....	Mar., 1893....		Eight Ave.
57...	Hoseman.....	R. W. Broadbent.....	35	Teamster.....	Mar., 1893....		Liberty St.
...	Substitute.....	C. A. Campbell.....	28	Teamster.....	Oct., 1899....		Mammoth Road
...	Substitute.....	W. J. Tighe.....	28	Leather Worker.....	Nov., 1900....		Second Ave.

## ENGINE COMPANY No. 6.

## TWELVE MEMBERS.

HOUSE ON FLETCHER STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
135...	Captain.....	D. J. Hurley.....	51	Permanent.....	May, 1879....	Engine House
63...	Lieutenant....	E. W. Fletcher....	49	Moulder.....	June, 1874....	L. M. S. Corp.
6...	Clerk.....	J. A. Fletcher.....	46	Driver, Wagon	May, 1880....	Engine House
61...	Hoseman.....	T. H. Rogers.....	51	Permanent.....	Dec., 1888....	Engine House
64...	Hoseman.....	E. F. Saunders....	37	Baker.....	Feb., 1890....	Mt. Washi'gton
65...	Hoseman.....	J. J. Murray.....	51	Cabinet Maker	July, 1885....	Bowers St.
60...	Driver.....	S. R. Pendexter....	50	Driver, Engine	June, 1892....	Engine House
62...	Engineer.....	F. G. Collins.....	44	Permanent.....	Dec., 1889....	Engine House
67...	Hoseman.....	E. A. Walsh.....	31	Plumber.....	June, 1895....	Engine House
69...	Ass't Engineer	E. Perham.....	42	Box Maker.....	July, 1892....	Common St.
66...	Hoseman.....	R. E. Burns.....	37	Cabinet Maker	Dec., 1888....	Nichols St.
79...	Hoseman.....	T. F. Maguire.....	36	Clerk.....	July, 1892....	Butterfield St.
...	Substitute.....	T. F. Saunders....	31	Horse Shoer...	Sept., 1895....	Butterfield St.
...	Substitute.....	J. J. Saunders.....	30	Plumber.....	Jan., 1899....	Tremont St.



## HOSE COMPANY No. 7.

## NINE MEMBERS.

HOUSE ON CENTRAL STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined	Dept.	Residence.
72..	Captain .....	E. Cunningham.....	55	Steam Fitter..	Aug., 1866....		20 Ames St.
70..	Lieutenant.....	E. O'Connell .....	45	Permanent .....	Aug., 1878....		Hose House
7..	Clerk .....	J. Sullivan.....	36	Driver, Wagon	July, 1892....		Hose House
73..	Hoseman .....	P. Emerson .....	44	Carpenter .....	Feb., 1883....		Lawrence St.
74..	Hoseman .....	E. Crowley.....	48	Coppersmith ..	Feb., 1883....		Hose House
71..	Hoseman .....	P. McLaughlin....	47	Permanent .....	Aug., 1888....		Hose House
77..	Hoseman .....	J. J. Emerson .....	40	Permanent .....	July, 1889....		4 Livingston St.
75..	Hoseman .....	T. H. Welch.....	45	Permanent .....	Nov., 1887....		Engine House
76..	Hoseman .....	Peter Sheehan ....	34	Clerk .....	Dec., 1897....		11 Lyon St.
..	Substitute .....	J. P. Moore.....	30	Trimmer.....	Feb., 1898....		560 Gorham St.
..	Substitute .....	J. Angelo.....	33	Steam Fitter..	Aug., 1900....		51 Pond St.

# HOSE COMPANY No. 8.

NINE MEMBERS.

HOUSE ON MERRIMACK STREET

## FIRE DEPARTMENT

29

Badge.	Rank.	Name.	Age.	Occupation.	Joined	Dept.	Residence.
150...	Captain.....	D. H. Crowley.....	42	Permanent....	Feb., 1890....		Hose House
86...	Hoseman.....	W. J. Flynn.....	50	Permanent....	April, 1885....		Hose House
87...	Clerk.....	W. F. Tighe.....	40	Driver, Wagon	Sept., 1892....		Hose House
88...	Hoseman.....	W. F. Dana.....	38	Machinist.....	Oct., 1888....		365 L. M. S. corp.
151...	Lieutenant....	B. J. Dunn.....	40	Permanent....	Feb., 1890....		Hose House
85...	Hoseman.....	T. F. Lynch.....	36	Piper.....	Nov., 1895....		19 James St.
...	Hoseman.....	T. F. Welch.....	52	Cabinet Maker	June, 1884....		20 Rockd'le Av.
136...	Hoseman.....	J. F. Convery.....	49	Carpenter.....	Jan., 1893....		39 Adams St.
89...	Hoseman.....	C. Collins.....	32	Machinist.....	Aug., 1894....		44 Common St.
...	Substitute.....	J. Bernier.....	..	Wood Dealer..	May, 1900....		65 Salem St.
...	Substitute.....	W. M. Barrett.....	35	Grocer.....	Aug., 1898....		137 Salem St.



## HOSE COMPANY No. 9.

## NINE MEMBERS.

HOUSE ON LINCOLN STREET

Badge.	Rank.	Name.	Age.	Occupation.	Joined	Dept.	Residence.
91...	Captain	J. Baxter.....	44	Permanent	July, 1883....		Hose House
92...	Lieutenant	P. S. Webster.....	55	Permanent	May, 1884....		Hose House
93...	Clerk	G. H. Chapman....	47	Driver, Wagon.	May, 1885....		Hose House
99...	Hoseman	J. M. Coleman.....	26	Operative	Aug., 1897....		Hose House
95...	Hoseman	C. A. Rock.....	43	Grain Dealer.	May, 1893....	32	Washington
97...	Hoseman	F. A. Kappler.....	44	Carpenter	May, 1893....		Hose House
98...	Hoseman	D. F. Conroy.....	31	Clerk	Jan., 1894....	4	Carter Place
94...	Hoseman	P. Kiernan.....	27	Plumber	Aug., 1899....		Hose House
96...	Hoseman	F. H. Crosby.....	34	Plasterer	May, 1900....	111	Moore St.
...	Substitute	Robt. Maxwell....	24	Stamper	June, 1902....	16	Carter Place
...	Substitute	Josh. L. King.....	30	Driver	Dec., 1902....	76	Washington

# HOSE COMPANY No. 10.

## NINE MEMBERS.

HOUSE ON FOURTH STREET.

## FIRE DEPARTMENT

31

Badge.	Rank.	Name.	A ge.	Occupation.	Joined Dept.	Residence.
160..	Captain	C. F. Hemenway...	53	Permanent	Sept., 1875....	Hose House
162..	Lieutenant	J. McCafferty.....	39	Permanent	Nov., 1887....	Hose House
161..	Clerk	A. E. Kidder.....	47	Driver, Wagon	Oct., 1887....	Hose House
166..	Hoseman	D. Common.....	53	Carpenter	Mar., 1896....	Beach St.
164..	Hoseman	C. E. Abare.....	28	Permanent	Sept., 1897....	Hose House
168..	Hoseman	Fred Mansur.....	44	Carpenter	Oct., 1889....	21 Third St.
197..	Hoseman	E. S. Barnes.....	33	Electrician	July, 1897....	31 Myrtle St.
165..	Hoseman	C. S. Hoisington..	45	Tinsmith	Aug., 1897....	Reed, cor. Fifth
163..	Hoseman	B. M. Simpson....	33	Hostler	May, 1901....	Fifth St.
..	Substitute	L. P. Reed.....	23	Machinist	April, 1902....	90 Fremont St.
..	Substitute	W. C. Doty.....	23	Clerk	May, 1902....	15 Second St.

## HOSE COMPANY No. 11.

HOUSE ON LAWRENCE STREET

NINE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Joined	Dept.	Residence.
200...	Captain	J. J. Jennings	44	Permanent	Nov., 1883	....	Hose House
201...	Lieutenant	W. A. Dolan	39	Permanent	Jan., 1888	....	Hose House
202...	Clerk	J. Bamford	44	Driver, Wagon	Dec., 1889	....	Hose House
203...	Hoseman	E. Jennings	39	Permanent	Jan., 1893	....	Hose House
204...	Hoseman	W. H. Meloy	44	Blacksmith	Dec., 1896	....	358 Central St.
205...	Hoseman	T. J. Dwyer	40	Machinist	Jan., 1893	....	534 Central St.
206...	Hoseman	George Buck	37	Belt Maker	Jan., 1893	....	742 Lawrence
207...	Hoseman	J. J. Doherty	40	Fruit Dealer	Jan., 1893	....	18 Mill St.
208...	Hoseman	J. F. Welch	37	Piper	Jan., 1893	....	417 Lawrence
...	Substitute	W. J. Sullivan	36	Shuttle Maker	Nov., 1896	....	Lawrence St.
...	Substitute	Peter B. Gray	30	Carpenter	June, 1901	....	71 Whipple St.

# TRUCK COMPANY No. 1.

TEN MEMBERS.

HOUSE ON LAWRENCE STREET

## FIRE DEPARTMENT

33

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
209...	Captain.....	A. H. Gibson.....	46	Permanent.....	Feb., 1884....	Ladder House
210...	Lieutenant....	T. Brown.....	46	Permanent.....	May, 1890....	Ladder House
211...	Clerk.....	T. Dwyer.....	39	Driver, Truck....	Sept., 1888....	Ladder House
212..	Ladderman...	J. O'Hare.....	36	Driver.....	Jan., 1893....	Ladder House
213...	Ladderman...	J. F. McGuinness...	40	Cloth Finisher...	Jan., 1893....	34 Floyd St.
214...	Ladderman...	J. B. Stanton.....	42	Wool Sorter....	Jan., 1893....	17 Newhall St.
215...	Ladderman...	J. D. Finnegan.....	37	Clerk.....	Jan., 1893....	185 Lawre'ce St
216...	Ladderman...	J. J. Donohoe.....	44	Teamster.....	Jan., 1893....	74 Agawam St.
218...	Ladderman...	Wm. Gilmore.....	44	Clerk.....	Jan., 1893....	39 Walnut St.
217...	Ladderman...	Wm. Heelon.....	40	Livery Stable...	Mar., 1896....	19 So. Whipple
...	Substitute.....	C. J. Meehan.....	39	Mattress Maker	Aug., 1894....	Bourne St.
...	Substitute.....	W. D. Draper.....	37	Carri'ge Painter	April, 1898....	Lawrence St.

## TRUCK COMPANY No. 2, WITH CHEMICAL ENGINE ATTACHED.

## THIRTEEN MEMBERS.

HOUSE ON WESTFORD STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined	Dept.	Residence.
21...	Captain.....	D. W. Hilliard.....	50	Permanent.....	Aug., 1872.....		Truck House
220...	Clerk.....	G. W. Alcott.....	49	Driver, Truck.	Oct., 1877.....		Truck House
130...	Driver.....	G. A. Dickey.....	53	Driver, Che'cal	Nov., 1888.....		Truck House
131...	Ladderman...	H. S. Gardner.....	50	Permanent.....	May, 1874.....		Truck House
132...	Ladderman...	E. E. Smith.....	48	Permanent.....	Jan., 1890.....		Truck House
123...	Lieutenant....	C. A. Thompson...	58	Carpenter.....	May, 1880.....		21 Kimball Ave
125...	Ladderman...	G. E. Maynard....	46	Carpenter.....	Oct., 1888.....		26 East Pine St.
129...	Ladderman...	L. A. Miller.....	38	Electrician....	Nov., 1890.....		17 Lane St.
127...	Ladderman...	D. D. Libby.....	40	Carpenter.....	June, 1892.....		Truck House
128...	Ladderman...	C. Stackpole.....	45	Clerk.....	Jan., 1883.....		105 Liberty St.
126...	Ladderman...	S. A. Pickering....	36	Carpenter.....	Nov., 1890.....		34 Hastings St.
122...	Ladderman...	A. I. Laughton....	47	Tinsmith.....	Oct., 1891.....		137 Pine St.
124...	Ladderman...	Q. A. Foster.....	45	Blacksmith...	June, 1889.....		56 D St.
...	Substitute....	W. S. Holt.....	28	Clerk.....	April, 1898....		8 Hale St.
...	Substitute....	R. B. Joslin.....	29	Clerk.....	April, 1898....		Truck House

# TRUCK COMPANY No. 3, WITH CHEMICAL ENGINE ATTACHED.

## THIRTEEN MEMBERS.

HOUSE ON PALMER STREET.

## FIRE DEPARTMENT

35

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
110..	Captain	F. E. Fuller.....	53	Permanent....	May, 1869....	Truck House
141..	Lieutenant	H. F. Harris.....	50	Permanent....	Nov., 1888....	Truck House
112..	Clerk	F. O. J. Townsend..	48	Driver, Truck.	May, 1886....	Truck House
140..	Ladderman	W. T. Foss.....	38	Permanent....	April, 1892....	Truck House
113..	Ladderman	F. W. Simons.....	49	Permanent....	Sept., 1872....	Truck House
111..	Ladderman	R. Carland.....	40	Permanent....	Oct., 1893....	Truck House
143..	Driver	H. A. Merrill.....	40	Driver, Che'cal	June, 1884....	Truck House
142..	Ladderman	P. O'Laughlin.....	41	Steam Fitter..	July, 1893....	.....
116..	Ladderman	W. P. Maker.....	38	Machinist.....	Sept., 1888....	L. M. S. Corp.
115..	Ladderman	D. Leary.....	38	Steam Fitter..	Sept., 1892....	Wilder St.
118..	Ladderman	H. E. Wilkins.....	44	Permanent....	Jan., 1890....	Truck House
114..	Ladderman	E. Kirwin.....	53	Steam Fitter..	May, 1871....	Royle St.
117..	Ladderman	E. H. Dearth.....	38	Permanent....	Jan., 1893....	Truck St.
..	Substitute	Thomas A. Hall...	..	Helper.....	Mar., 1901....	Lagrange St.
..	Substitute	W. O. Lussier....	..	Blacksmith....	April, 1900....	84 Fourth Ave.



## TRUCK COMPANY No. 4.

## TEN MEMBERS.

HOUSE ON FOURTH STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Joined	Dept.	Residence.
102...	Captain.....	H. B. Downs.....	67	Permanent.....	July, 1855....		Truck House
101...	Lieutenant....	J. W. Adams.....	52	Permanent.....	Aug., 1874....		Truck House
100...	Clerk.....	W. L. Peabody.....	55	Driver, Truck.	Nov., 1874....		Truck House
105...	Ladderman...	R. W. Stickney....	41	Janitor.....	May, 1889....		61 Twelfth St.
104...	Ladderman...	E. Lepiene.....	49	Roll Coverer..	Nov., 1894....		598 Bridge St.
106...	Ladderman...	N. Bishop.....	64	Permanent.....	July, 1855....		28 May St.
103...	Ladderman...	T. McCormick.....	47	Lineman.....	Feb., 1886....		172 Market St.
109...	Ladderman...	T. Conway.....	34	Lineman.....	July, 1893....		106 Concord St.
107...	Ladderman...	G. E. Scofield.....	36	Teamster.....	Dec., 1897....		371 Bridge St.
108...	Ladderman...	W. N. Flagg.....	56	Carpenter.....	Feb., 1884....		75 Whitney Av.
...	Substitute....	H. Mangan.....	33	Caterer.....	Aug., 1897....		Tenth St.
...	Substitute....	A. G. Beharrel....	22	Real Estate...	June, 1901....		89 Fremont St.

## PROTECTIVE COMPANY No. 1.

## SIX MEMBERS.

HOUSE ON WARREN STREET

Badge.	Rank.	Name.	Age.	Occupation.	Joined Dept.	Residence.
80...	Captain	J. L. Flagg	67	Permanent	Feb., 1875	Protective H'se
82...	Lieutenant	W. H. Halstead	58	Permanent	May., 1864	Protective H'se
84...		D. W. Russell	49	Permanent	Jan., 1885	Protective H'se
81...		J. W. Halstead	54	Permanent	Jan., 1872	Protective H'se
8...	Clerk	J. F. McKissock	50	Driver, Wagon	July, 1889	Protective H'se
83...		M. C. Rowell	39	Permanent	April, 1894	Protective H'se
...	Substitute	J. F. Flemings	26		Mar., 1892	Oak St.



## TELEPHONE CIRCUIT.

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Complete Stations.....	19
Tap Bells (extra).....	43
Miles of Wire.....	40
Storage Battery of 100 cups.	

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The value of all property, as near as can be ascertained, in care of the Chief of this Department is \$154,000.00.

## FIRE-ALARM TELEGRAPH.

Location—Engine House, Palmer St.

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HENRY C. FERNALD Operator.

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Ten-circuit Automatic Repeater with Storage Battery of	
	400 cups
Miles of Wire .....	100
Signal Boxes.....	125
Engineers' Gongs .....	8
Engineers' House Gongs.....	15
Indicators.....	17
Bell Strikers.....	10
Gong and Indicator Combined in Police Station.	
Gong in Pumping Station.	
Gong in Merrimack Square.	
Gong at Towers' Corner.	
Gong at Northern Depot.	

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The strikers are located as follows; Palmer Street Engine House, Varnum School House, High Street Church, Court House, No. 1 Engine House, Franklin School House, Pawtucketville Engine House, No. 6 Engine House, Highland School House. Lawrence Street Engine House.

## General Running Orders.

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The companies will respond to alarms of fire given from boxes as indicated on the running card.

The Chief, Assistant Chief, and Protective Company will answer alarms from all boxes.

Members of companies who do not respond to first alarms will report to their respective houses and await orders. Should a second or third alarm be not received within thirty minutes, the officer in command will have the roll called and dismiss his men. If the recall is sounded before the stipulated time, the officer will dismiss his men. After a second alarm has been given, the members of companies not responding to it will remain on duty at their respective houses until the recall is sounded. If there are no companies remaining in quarters that respond to alarms given from other boxes after the first alarm has been given and before the recall is struck, one engine, one truck, chemical, and two hose companies remaining in quarters nearest to the box giving the alarm, will respond immediately. This article applies to all alarms of fire, except in case of telephone or still alarms the engine will not respond. after a second alarm is given, all companies remaining in quarters will respond immediately before the recall is sounded.

In cases where two alarms are given from the different boxes, the second having struck before the recall from the

first box, the recall from the first box will be two blows, from the second box one blow.

The all-out or recall signal will be given by striking two blows, with an interval of ten seconds between the blows.

Second alarms will be given by striking two blows, followed by one round of the box.

Third or general alarms will be given by striking three blows, followed immediately by one round of the box, when all the companies will respond.

Second or third alarms will be given by special orders of the Chief or Assistant Chief.

Two strokes repeated at 1-4 before 8 A. M. and 1-4 past 1 P. M. in the summer and 1-4 before 1 P. M. in the winter denotes no session of the primary and Kindergarten Schools. The same alarm repeated in thirty seconds denotes no session of all the schools. The same alarm at 6.05 P. M. denotes no session of the Evening Schools.

Schedule of all the Fires which occurred in the City of Lowell during the year ending Dec. 31, 1902.

## JANUARY

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Ins'nce Paid	Cause of Fire
3	3:23 p m	Ant	6:33 a m	Lincoln st	Haworth & Watson	H and W	Cop Tube Mfg			Overheated thermostat.
3	3:30 a m	16	9:00 p m	Gorham st.	Archb'p Williams.	St. Peter's Society.	Church			Evergreen set by wax taper
3	7:19 a m	6		Mt. Vernon st.	O. Allen & Son.	"	Box Shop	\$ 487.50	\$ 487.50	Shavings in boiler room.
3	9:26 p m	Ant		Central St.	Appleton Bank	A. Putnam & Co.	Clothing.			Water leak
4	7:56 a m	Ant		Eleventh st.	F. D. Hall.	F. D. Hall.	Dwelling	30.00	30.00	Overheated boiler.
4	4:04 a m	Ant		Perry st.	Rob't Montgomery	"	"			Chimney
4	6:26 p m	135	6:35 p m	Everett st.	Mrs. O'Hearn.	Mrs. O'Hearn.	"			Chimney
5	3:05 p m	Still		Central st.	J. L. Chalfoux.	Several	Stores and Offices			Candle and paper or wood.
5	7:56 p m	Ant		Central st.	J. L. Chalfoux.	Several	Web Mill.	23,006.38	23,006.38	Supposed steam pipe.
6	1:10 a m	18	2:37 a m	Hale st.	J. Harriman.	J. Harriman.	"			2d alarm same fire.
6	1:21 a m	2d	2:37 a m	"	"	"	"			"
6	11:19 a m	218	11:35 a m	Crescent st.	W. H. Wiggin.	W. H. Wiggin.	Tool House.			Hot stove.
6	10:33 p m	72	12:24 a m	Middlesex st.	A. C. Wheelock.	Several	Dwelling	180.00	180.00	Hot stove.
7	6:05 p m	222		"	"	"	"			No school.
8	10:41 a m	Ant		Lincoln st.	Haworth & Watson	Howarth & Watson	Cop Tube Mfg			Overheated thermostat.
10	10:45 p m	Still		Suffolk st.	Archb'p Williams.	"	School House.			Drying Plaster.
12	11:35 a m	Ant		Middle st.	P. Parker.	Several	Stores and Rooms.			Overheated Thermostat.
12	8:21 p m	149	11:45 a m	Bartlett st.	J. D. Burns.	Unoccupied	Dwelling			Drying Plaster.
13	8:21 p m	Still		John st.	Mrs. Carney.	Mrs. Carney.	"			Chimney
13	7:35 a m	Still		High st.	A. G. Thompson.	Several	"			Grease on Stove
16	10:20 p m	Ant		Middle st.	P. Parker.	"	Stores and Offices.			Overheated thermostat.
17	8:17 a m	Still		Agawam st.	Mrs. Findley.	Mrs. Findley.	Dwelling	42.00	4,000.00	Candle set wood.
18	8:36 a m	125	8:45 a m	Lewis st.	R. G. Bartlett.	Several	"	25.00	7,000.00	Incendiary.
20	7:53 p m	19	8:01 p m	Summer st.	Mary Cross.	"	"	16.00	1,000.00	Oil lamp set lounge.
21	7:15 p m	Still		Central st.	A. C. Wheelock.	V. Pihl.	Furniture			Oil Lamp.
22	7:45 a m	222		"	"	"	"			No school.
22	8:44 p m	14	9:54 p m	Church st.	E. Cawley.	A. Jean.	Laundry	2,333.00	5,500.00	Overheated smoke flue.
23	9:45 a m	Tel		Gorham st.	Mrs. W. Tyrrell.	Mrs. W. Tyrrell.	Dwelling			Fumigating
23	8:55 p m	Tel		Middlesex st.	B. & N. R. R.	B. & N. R. R.	Power House.			Overheated smoke flue.
23	6:30 p m	Tel		Dutton st.	D. J. Murphy.	D. J. Murphy.	Theatre			Electric wire.
24	9:15 a m	Tel		Middlesex st.	B. & N. R. R.	B. & N. R. R.	Power House.			Overheated smoke flue.
24	9:38 a m	Tel		"	"	"	"			"
25	9:00 a m	Tel		"	"	"	"			"
25	3:00 a m	Still		Tanner st.	S. Bean.	"	Dump.			Dump set by boys.
25	6:35 p m	Still		Perkins st.	G. W. Harris.	Several	Dwelling			Chimney
28	6:48 a m	Tel		Tilden st.	J. Ayer Estate.	"	"			Smoking in bed.
28	8:22 a m	25	8:30 a m	New St.	Daniel Mahoney.	Daniel Mahoney.	"			Chimney
28	6:53 p m	Still		Middlesex st.	B. & N. R. R.	B. & N. R. R.	Power House.			Overheated smoke flue.
28	9:20 p m	Tel		"	"	"	"			"
28	9:34 p m	271	9:47 p m	"	"	"	"			"
29	12:03 p m	Still		Tanner st.	G. Runels.	"	"			Grass
29	7:13 p m	Tel		Marginal st.	Howarth & Watson	"	"			"
29	7:13 p m	Tel		Middlesex st.	Appleton Co.	"	"			"
30	6:24 a m	24	6:33 a m	Bellevue st.	Mrs. F. B. Hill.	Max Levey.	Variety Store.	20.00	1,000.00	Unknown
30	3:25 p m	Tel		"	"	"	"			Gas

# FEBRUARY.

Date	Time	Sig- nal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insur- ance	Amount Insur- ance Paid	Cause of Fire
1	10:45 p m	134	10:53 p m	Main st.	H. B. Hill.	Several	Stores and Rooms.	\$ 20.25	\$ 13,500.00	\$	False
1	11:00 p m	53	11:07 p m	Middlesex st.	F. Moran.	"	Dwelling	29.25	1,000.00	20.25	Oil Lamp exploded.
2	1:50 a m	23	1:58 a m	Lakeview ave.	A. J. Hickson.	A. J. Hickson.	"			29.25	Smoking in bed.
4	3:10 p m	Still		Mammoth road	John Mullin.	John Mullin.	Stable & Dwelling.				Chimney
5	4:25 a m	Tel		Tewksbury	Geo. Runels.	Several	Dwelling	15.00	800.00	15.00	Out of the City.
5	7:36 p m	51	8:45 p m	Gorham st.	Mary A. Carr.	"					Oil Lamp knocked off table
6	8:46 a m	Still		Williams st.	W. A. Ingham.	"	Stores & Dwelling	190.50	16,000.00	190.50	Overheated Fire Place.
6	4:09 p m	31	4:29 p m	E Merrimack st	Mrs. L. E. Shepard	"	Dwelling	10.00	2,000.00	10.00	Lamp set curtain, mattress
6	5:57 p m	Still		High st.	R. G. Bartlett	"		10.00	600.00	10.00	Unknown, excelsior.
7	2:22 p m	225	2:31 p m	Little st.	G. E. Blanchette.	G. E. B.	Carriage Smith				Unknown
10	12:33 a m	225	12:41 a m	Suffolk st.	G. H. Goldman.	Several	Dwelling	488.60	4,000.00	388.60	Hot stove set wood work.
10	1:17 p m	7	1:21 p m	Dutton st.	A. J. Laughlin	Unoccupied	"				Drying Plaster.
11	7:50 p m	Still		High st.	P. J. O'Rourke	"	"				Rekindled
12	9:08 p m	139	10:20 p m	Adams st.	P. J. O'Rourke	"	"				Grass
12	11:56 p m	139	12:09 a m	"	Several	C. J. Meehan.	Laundry	2.50	56,000.00	2.50	Chimney
15	1:10 p m	Tel		Hildreth st.	A. C. Wheelock	"	"				"
16	5:45 p m	Still		Agawam st.	J. T. Sevens.	C. Littlefield & Co.	Box Shop	575.10	14,000.00	475.10	Combustion
16	6:42 p m	Still		Merrimack st.	"	Several	Stores & Dwelling				No School.
17	6:55 a m	Tel		Middle st.	Mansur est.	"	"				Hot Stove.
17	12:45 p m	222		"	"	"	"				Same Fire.
17	3:56 p m	Tel	4:38 p m	E. Merrimack	"	"	"				No School.
17	3:58 p m	131		"	"	"	"				Overheated Thermostat.
17	6:05 p m	222		"	"	"	"				Spark from chimney set
18	7:45 a m	222		"	"	"	"				Child and Matches....[chair
20	9:34 a m	Aut		Tanner st.	Haworth & Watson	Haworth & Watson	Cop. Tube Mfg	62.75	700.00	62.75	Hot stove set coat.
21	6:02 p m	Still		Worthen st.	Locks and Canals.	W. H. Hardy.	Dwelling	295.06	2,500.00	109.06	Candle set room.
22	8:53 a m	232	9:27 a m	Shed st.	F. B. Shedd.	A. Smith.	"	5.00	1,000.00	5.00	Overheated Thermostat.
22	11:23 p m	46	11:32 p m	Lakeview ave.	Peter Gallagher.	"	"	40.00			No School.
23	12:15 a m	325	12:48 p m	Fenwick st.	C. Daly.	"	"				
25	5:25 p m	Aut		Tanner st.	Haworth & Watson	Haworth & Watson	Cop Tube Mfg				
25	5:25 p m	Aut		"	"	"	"				
26	7:45 a m	222		"	"	"	"				



# MARCH.

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce	Amount of Insu'nce Paid	Cause of Fire.
3	12:20 a m	Tel		Lawrence st.	Wamesit Power Co	Mason Thread Co.	Bridge.				Gas leak set bridge.
6	3:44 p m	Aut		Perry st.	Mason Thread Co.	J. N. Carter.	Thread Mfg.				Overheated Thermostat
7	9:30 p m	Aut	42	Middlesex st.	L. A. Fisher.	O'Donnell & Gil-	Furniture	\$1,210.30	12,800.00	\$1,210.30	Unknown.
10	7:58 p m	Still		Middle st.	J. K. Fellows.	"	"	28,249.91	147,200.00	25,945.19	Same Fire.
11	7:50 p m	36	9:00 p m	"	"	"	"				Same Fire.
11	10:03 p m	Tel		Aiken ave.	"	"	Store House for.				Same Fire.
12	3:00 p m	Aut	10:21 p m	Perry st.	Mason Thread Co.	Mason Thread Co.	Waste Paper				Same Fire.
15	12:10 p m	Aut	12:27 p m	Gorham st.	Several	"	Thread Mfg.				Overheated Thermostat.
16	3:04 p m	38	3:23 p m	"	"	"	"				Grass
16	12:20 a m	65	12:36 a m	Decatur ave.	John Ames est.	Unoccupied	Dwelling				Out of the City.
16	9:21 a m	Tel		Marlborough st.	Philip Larnet.	Philip Larnet.	"				Chimney
16	12:15 p m	Tel		"	H. E. Noyes.	H. E. Noyes.	Stable	65.00	1,800.00	65.00	Hot stove set partition.
18	7:23 p m	Tel		Middlesex st.	A. C. Wheelock.	Several	Dwelling				Chimney
20	7:15 a m	Tel		"	S. P. Hadley.	S. P. Hadley.	"				"
20	4:01 p m	88	4:19 p m	Powell st.	C. H. Miller.	"	"	15.00	2,500.00	15.00	Children and Matches.
20	8:36 p m	9	9:03 p m	Commons st.	Tom Fay.	Several	"	45.00	3,300.00	45.00	Gas Jet and Curtain.
22	12:36 p m	Tel		Perry st.	Electric Light Co.	"	"				Pile of telegraph poles.
23	5:15 p m	25	12:51 p m	Parker st.	H. J. Williams.	Several	Dwelling	1,035.00	4,000.00	1,035.00	Brush.
23	11:53 a m	25	12:51 p m	"	G. N. Osgood.	"	"	10.00	500.00	10.00	"
23	11:53 a m	25	12:51 p m	"	W. G. Robinson.	"	"	251.09	800.00	251.09	"
23	11:53 a m	25	12:51 p m	"	A. Delisle.	"	Clothing.	649.79	1,600.00	649.79	"
23	11:53 a m	25	12:51 p m	"	G. E. Mongeau.	"	Boots and Shoes.	411.66	4,200.00	237.58	"
23	12:15 p m	92	12:28 p m	Billings st.	R. G. Bartlett.	Several	Stores & Dwelling.				Grass
23	3:15 p m	Tel		Merrimack st.	G. N. Osgood.	"	"				Rekindled
24	10:37 a m	15	11:04 a m	Otis st.	J. Shanley est.	Mass. Corp.	Cotton Mill.				Grass
24	11:35 a m	13	11:43 a m	Bridge st.	Mass. Corp.	"	"				Friction in dust box.
25	12:00 a m	Still		Gorham st.	Mollogan Bros.	Unoccupied	Coal Shed				Spark set roof.
25	11:15 a m	Tel		First st.	Looks & Canals.	"	"				Grass
26	11:47 a m	Tel		West View st.	Several	"	"				"
26	1:55 p m	Still		Chapel st.	L. Roach.	"	Dwelling				Chimney
27	1:05 p m	Tel		Smith st.	Several	"	"				Grass
30	6:30 p m	Tel		Kirk st.	A. Weatherbee est.	Dr. J. H. Jennison.	"				Stove Smoking
31	3:10 p m	298	3:21 p m	Gorham st.	Several	"	"				Grass





# MAY

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insurance	Amount Insured Paid	Cause of Fire
1	11:38 p m	15	12:09 a m	E. Bleach'ry st.	Wm. Andrews...	Wm. Andrews...	Shedd...	\$.	\$.	\$.	Supposed Incendiary.
2	3:58 p m	171	6:53 p m	off Middlesex st.	A. L. Brooks est.	Unoccupied	Old Saw Mill...				Spark set roof.
3	9:57 a m	23	10:09 a m	Lakeview ave.	Chas. Callahan...	Several	Dwelling	19.60	2,500.00	19.60	Unknown, cloth on table.
4	2:25 p m	65	2:32 p m		F. Varley	"	"				Oil Stove.
5	10:14 a m	225	10:19 p m	LaGrange st.	J. J. Coffey	"	"				Meat on stove.
6	12:04 p m	Still	12:16 p m	George st.	Middlesex Corp.	Several					Grass
7	7:37 a m	136	7:48 a m	Parker st.	Several						"
8	8:14 a m	Still		Hurd st.	Wm. Manning	J. Blakely	Blacksmith Shop.				False Alarm.
9	3:39 p m	Tel		Wildor st.	Geo. Evans		Dump				Spark from forge.
9	9:07 a m	5	9:12 a m	Fletcher st.	J. W. Bennett	J. H. Collins	Blacksmith Shop.				Dump
9	12:15 p m	Still		Reed's ct.	J. Davis est.	Several	Dwelling				Spark from forge.
9	2:58 p m	136	3:57 p m	off Stevens st.	Several						Chimney
9	5:30 p m	136	3:50 p m	"							Brush
9	7:05 p m	Still		North st.	A. C. Wheelock	Mary McLeney	Dwelling				Def. Chimney
10	2:45 p m	Tel		E Chelmsford	Chas. Brown	Chas. Brown	Barn				Spark set roof.
11	1:26 a m	45	3:55 a m	Middlesex st.	W. A. Ingham	Several	Laundry	3,800.00	8,000.00	3,800.00	Supposed Incendiary.
11	1:26 a m	45	3:55 a m	"		Mary Phelan	Dwelling	416.88	500.00	416.88	Same Fire.
12	1:15 p m	Still		Middle st.	J. R. Fellows	O'Donell & Gilbre	Dry Goods etc.				Boiler smoking
13	9:04 a m	Still		Rt Merrick st.							Rubbish
13	1:18 p m	21	8:21 p m	Kirk ave.	Bon Marche Co.	Bon Marche Co.	Dry Goods etc.				Waste paper in basement.
14	6:26 a m	25	6:51 a m	Tilden st.	C. W. Johnson	J. H. Beaulieu	Bakery				Cotton Seed Oil caught fire.
15	8:47 a m	Still		Pleasant st.	J. Saunders	J. Saunders	Dwelling	612.47	10,000.00	612.47	Chimney
16	8:10 p m	Aut		Lincoln st.	Bleachery Co.	H. and W.	Cop. Tube Mfg.				Spark set roof.
17	6:35 a m	216	6:45 a m	Lawrence st.	Peter Watson	Several	Dwelling	15.00	1,600.00	15.00	Testing Valve.
18	5:52 p m	Still		Bridge st.	J. M. G. Parker est	Several	Awning				Spark set roof.
18	7:00 p m	Still		Williams st.	R. G. Bartlett	Several	Dwelling				Match
19	2:28 p m	42	2:33 p m	Marshall st.	H. Bacon est.	Several	Ash Barrel				Boys set shed
20	2:25 a m	72	3:03 a m	Middlesex st.	Chas. Stott est.	J. D. F. Hilliker	Restaurant				Hot Ashes
20	9:29 a m	53	9:38 a m	Post Office ave.	Mrs. A. J. Calif	W. Wyman	Ash Barrel	1,183.55	13,800.00	1,183.55	Hot Ashes
21	5:08 p m	Aut		Lincoln st.	Haworth & Watson	H. and W.	Cop. Tube Mfg.				Opening Valve.
22	11:40 a m	Tel		Central st.	Wright & Gerrish	Lowell News	New Paper Office.				Gas Leak.
23	11:51 a m	28	11:58 a m	Aiken st.	Mr. Leblanc	Several	Dwelling				Spark set roof.
23	7:35 p m	Still		Gorham st.	J. Crawford	L. C.	Stable				Chimney
25	11:45 a m	Still		Fayette st.	J. F. Lyons	J. F. Lyons	Dwelling				Unknown
25	4:48 p m	115	5:28 p m	Moore st.	Geo. Hardman	W. A. Harriman	Dwelling	375.00	3,000.00	375.00	Children set rubbish in
27	1:15 p m	222									No School

May 21, 12 06 p m 62 Blows for the Death of Mayor Dimon  
 " 22, 3 40 p m 70 Blows During Removal of Mayor Dimon's Body from his house to City Hall  
 " 24, 7 00 a m 21 Blows During Removal of Mayor Dimon's Body from Church to the car

# JUNE.

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage \$.	Amount of Insurance \$.	Amount of Insurance Paid \$.	Cause of Fire
1	9.55 a m	Te		Merrimack st.	J. Nesmith est.	Bailey & Co.	Druggist				Boiler Smoking
2	12.30 p m	Te		Lee st.	Dartmouth College		Restaurant				Overheated stove set floor
3	1.30 p m	Still		Aiken st	"		Bridge				Cigar Stubb
3	1.45 p m	Te									Same Fire
3	3.27 p m	225	3.38 p m	Suffolk st.	Mrs. E. Lundurg		Shed and Carriage				Children and Matches
3	3.27 p m	Te		Aiken st.	City		Bridge				Cigar Stubb
4	5.15 p m	145	5.30 p m	Sawtell place.	P. Brogan	Several	Dwelling				Spark set roof
4	5.22 p m	Still		High st.	Mrs. E. Cavanaugh		Dwelling				Rubbish in cellar
5	6.15 p m	171	2.43 p m	off Middlesex st	D. Gage est.		Saw Mill				Unknown
6	11.35 a m	171	11.46 a m	Dutton st.	B. and M. R. R.		Bridge				Spark set sawdust
7	1.06 p m	Still		Lakeview ave.	Locks & Canals.		Dump				Spark set bridge
7	6.07 p m	65	8.05 p m		Dr. Benoit	Store & Dwelling	John Boudreau	100.58	8,900.00	100.58	Gas Jet and trimmings
14	6.55 p m	Still		off Thorndike st	B. and M. R. R.		Car of Cotton	500.00	6,000.00	500.00	Unknown
14	6.56 p m	143	7.58 p m		"		Freight House	521.00	1,232.00	521.00	Caught from Car Exposure
14	8.38 p m	Still		Church st.	"		Bridge				Spark set bridge
14	9.17 p m	139	9.24 p m	Broadway st.	D. J. Murphy		Laundry				Careless use of Matches
16	11.25 a m	Te		Stackpole st.	Tanner st.						Dump
17	3.45 a m	Still		Richardson st.	Haworth & Watson						"
18	12.30 a m	Te		Bridge st.	City		Bridge				Cigar Stubb
18	1.15 p m	Still		Barclay st.			Fence				Grass set fence
18	3.58 p m	Still		Andrew st.	U. S. Catridge Co.		Catridge Mfg				Explosion
19	6.15 p m	84	1.22 p m	Westford st.	B. and N. R. R. [Co		Car				Defective Motor
20	1.17 p m	Still		Tanner st.	Criterion Knitting		Underwear Mfg				Supposed shavings in boiler
20	2.47 p m	34	5.53 p m		"						Same Fire
20	2.51 p m	Still		Lincoln st.	Charles Kappeler		Dwelling	25,655.29	27,000.00	25,655.29	Spark set roof
20		Still		"	J. L. Norton			8.00	500.00	8.00	"
20		Still		"	Michael Heller			15.00	1,600.00	15.00	"
20		Still		W. Manchester	Greewood & Payton			710.00	3,000.00	710.00	"
20	3.34 p m	134	3.39 p m	West London.	W. H. Penn.			25.00	1,200.00	25.00	"
20		Still		"	Ada Webster			97.10	1,500.00	97.10	"
20		Still		"	F. J. Penn.			24.00	1,500.00	24.00	"
20		Still		"	P. S. Webster			10.00	1,100.00	10.00	"
20		Still		"	P. S. Webster			22.00	950.00	22.00	"
20		Still		W. Manchester	S. S. Heureaux			20.00	1,000.00	20.00	"
20		Still		Lincoln st.	Ada Glidden			6.00	1,800.00	6.00	Tinsmith fire pot
21	5.13 p m	172	5.21 p m	Favor st.	City		School House	63.00		63.00	Incendiary
21	10.59 p m	131	11.06 p m	E. Merrimack	W. A. Ingham		Boarding House				"
22	3.12 a m	131	3.20 a m	"	"		"	427.25	9,653.00	427.25	"
22	11.20 a m	131	11.29 a m	"	"		"				"
22	9.37 p m	131	10.16 p m	"	"		"				Rekindled
23	11.58 p m	131	12.19 p m	"	"		"				Same Fire
23	1.05 a m	Still		"	"		"				

# JUNE—continued.

Date	Time	Sig- nal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce	Amount Insu'nce Paid	Cause of Fire
23	5.10 p m	Tel		Aiken st.	City		Bridge				Cigar Stubb.
23	1.05 a m	Still		Suffolk st.	Briggs Carriage Co		Blacksmith Shop.				Spark from forge.
24	4.35 p m	Still		Tanner st.	Haworth & Watson		Tanner				Dump.
24	7.37 p m	Still		E. Meadow rd.	Dr. S. Ward		Tool House.				Children and Matches.
24	8.12 p m	Tel		"	"		"				Same Fire.
25	10.16 a m	Still		Merrimack st.	P. Webster est.		Printing Office.				Waste Paper.
28	2.45 p m	23	3.08 p m	Lakeview ave.	S. T. Brown.		Dwelling	\$ 75.00	\$1,000.00	75.00	Fire Cracker set roof.
29	7.57 a m	Still		Merrimack st.	A. C. Wheelock.		Furniture				Spark set roof.
29	9.40 a m	Still		Central st.	Fay Bros & Hosford		Bill Board				Cigar Stubb.
29	1.45 p m	Still		Gorham st.	Lena C. Moxley		Dwelling				Clothes in closet.
30	7.58 a m	216	8.06 a m	Hudson st.	M. Murphy	Several	"	87.80	800.00	\$ 87.80	Ash Barrel.

# JULY.

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insurance Paid	Amount of Insurance	Cause of Fire
2	8:34 a m	9	8.44 a m	Salem st.	P. Manning	Several	Dwelling	\$15.50	\$1,500.00	15.50	Careless use of matches.
2	8:34 p m	Still		Lincoln st.	Dr. W. Sawyer	Dr. W. Sawyer	Stable				Children and Matches
2	6:32 p m	121	6.38 p m	Western ave.	G. L. Cady	Geo. L. Cady	Boiler Room	45.00	70.00	45.00	Shavings caught from boiler
2	7:20 p m	Tel		Pawtucket ave.	City	G. L. Cady	Boiler Room				Dump
3	8:10 a m	121	4.25 a m	Western ave.	G. L. Cady	Several	Dwelling	30.00	1,500.00	30.00	Rekindled
3	3:15 p m	Still		Gorham st.	Geo. Rannels		Ash Barrel				Ash Barrel (hot ashes)
4	12:12 p m	5	12.16 p m	Adams st.	D. Redding		Dwelling				Fire Crackers set roof
5	1:12 a m	31	1.19 a m	Middlesex st.	D. Gage est.		Saw Dnst.				False Alarm
7	2:20 p m	Tel		Lakeview ave.	City		Fruit Store				Spark from locomotive
8	9:10 a m	Tel		Central st.	J. B. French est.	T. F. Hennessey	Ash Barrel				Dump
8	5:44 p m	Tel		Bassett st.	M. Madigan	T. Parker	Restaurant	2.35	500.00	2.35	Filling peanut roaster with
10	2:23 a m	216	2.41 a m	Dutton st.	D. J. Murphy		Sawdust				Ash Barrel (hot ashes)
15	9:00 a m	Tel		First st.	Locks & Canals						Smoke
15	1:26 p m	71	2.58 p m	Middlesex st.	D. Gage est.		Sawdust				Dump
15	3:10 p m	Still		Pawtucket st.			Dwelling				Spark from locomotive
18	2:28 a m	Tel		Varnum ave.	W. Cornell	W. Cornell					Dump
18	5:25 p m	Still		Fifth st.	L. R. and J. Varnum	Several	Dwelling				Careless use of matches
19	11:27 p m	131	11.35 p m	Howe st.	A. Conway	Unoccupied	"				Unkown
21	11:30 a m	Still		Chapel st.	H. B. Hill	Several	"				Stove Smoking
21	4:28 p m	Tel		First st.	Locks & Canals						Dump
22	3:55 a m	Tel		Broadway st.	Merck. Paving Co.	Merck. Paving Co.	Asphalt Rollers				Asphalt caught fire
24	3:50 a m	Tel		Lawrence st.	E. Hapgood & Son	E. Hapgood & Son	Shoddy Mill				Combustion of stove rags
26	3:54 p m	129	5.17 p m	Reacon st.	F. Pachard	J. H. Shaw	Dwelling	903.81	3 600.00	903.81	Combustion of stove rags
26	7:44 p m	Still		Branch st.	C. E. Carter	C. E. Carter	Dwelling	15.00	700.00	15.00	Matches set screen
26	8:13 p m	15	8.26 p m	Gorham st.	J. Warburton	J. Warburton	Dwelling	83.44	3,200.00	83.44	Oil Lamp exploded
27	4:21 p m	9	4.29 p m	Common st.	P. Smith	P. Smith	Dwelling	102.49	14,700.00	102.49	Gas Jet
28	8:07 p m	113	8.11 p m	John st.	Ayer Home	Rose Jordan Hart	Millinery				Out of the city
28	11:45 p m	Tel		Westford st.	W. Guild	Hanson	House and Barn				Oil Lamp exploded
29	8:26 p m	Still		Gorham st.	Hanson	Mail Office	Dwelling				Smoky Chimney
31	1:15 a m	Still		Market st.	C. B. Coburn est.	J. Mullin	Hay and Grain	1,147.76	1,200.00	1,147.76	Supposed Smoking
31	10:12 a m	15	11.04 a m	Gorham st.	J. Mullin						



# AUGUST.

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce Paid	Amount Insu'nce Paid	Cause of Fire
1	5.18 p m	63	5.43 p m	Howard st.	J. Pareshey	Several	Dwelling	\$ 5.60	\$1,400.00	\$ 4.10	Oil Stove
2	4.30 p m	Tel	11.56 p m	Aiken st.	Locks & Canals	.....	Dump	10.00	400.00	10.00	Dump
4	11.42 p m	216	7.58 p m	Lawrence st.	City Inst. Savings	M. Conway	Dwelling	15.70	1,850.00	15.70	Oil lamp exploded.
5	7.40 p m	125	.....	Market st.	E. Hennessy	Several	"	.....	.....	.....	Oil Stove
7	8.40 p m	Tel	.....	Lakeview ave.	R. Reed	Dump	.....	.....	.....	.....	Dump
12	2.15 a m	115	5.02 a m	Tewksbury	W. H. Wiggin	A. Jenkenon	House and Barn	.....	.....	.....	Out of the city
16	7.30 p m	42	7.37 p m	Howard st.	G. E. Stanley	Several	Dwelling	.....	.....	.....	Oil Lamp
17	12.38 a m	Still	.....	Merrimack st.	C. R. Russell est.	.....	.....	.....	.....	.....	Unknown
17	12.58 a m	28	1.05 p m	Aiken st.	City	.....	Bridge	8.73	.....	.....	Cigar Stub
17	6.00 p m	28	6.49 p m	Hall st.	G. W. Harris	.....	Dwelling	5.00	15,000.00	5.00	Stove smoking
19	11.51 a m	125	12.00 p m	Fenwick st.	C. A. Daley	.....	"	.....	.....	.....	Clothes in closet
22	1.35 p m	42	1.42 p m	Middlesex st.	A. C. Wheelock	L. A. Foster	Blacksmith	.....	.....	.....	Spark set roof
23	2.53 p m	Still	.....	Williams st.	R. G. Bartlett	Several	Dwelling	.....	.....	.....	Children and Matches
25	10.53 p m	130	10.59 p m	Adams st.	C. Shannahan	.....	"	10.00	6,000.00	10.00	Oil Lamp
25	7.10 p m	Still	.....	Central st.	A. C. Wheelock	William Fur. Co.	Furniture	.....	.....	.....	"
30	4.32 a m	61	4.45 a m	Lawrence st.	E. Hapgood & Son	E. Hapgood & Son	Shoddy Mill	1.215.43	1,600.00	1.215.43	Combustion
30	7.18 p m	39	7.23 p m	Fletcher st.	E. Murphy	Several	Dwelling	18.70	3,500.00	18.70	Oil Lamp

# SEPTEMBER.

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Ins'n'ce Paid	Amount Ins'n'ce Paid	Cause of Fire
1	8.13 a m	Still		Columbus ave.	Mrs. Fletcher.	G. Harvey.	Dwelling.	\$ 97.00	\$3,500.00	\$ 47.00	Children and Matches [dust
1	1.25 p m	Tel		off Midd'sex st	D. Gage est.	Several	Sash & Blind Mfg.				Spark from locomotive set
2	10.17 p m	121	10.33 p m	Dutton st.	Wamesit Steam Co	Mrs. Shantley.	Dwelling.				Spark from locomotive set
2	7.45 p m	Still		Phillips st.	Mrs. M. D. Franks.	J. H. Curry.	"				Match set lounge.....[roof
3	12.52 p m	Still		Tremont st.	Tremont & Suffolk	Mrs. Shantley.	"				"
6	10.15 a m	Tel		Middlesex st.	A. C. Wheelock	J. A. Foster.	Blacksmith				Spark set roof.
9	9.50 p m	Tel		Market st.	J. A. Babcock est.	F. M. Bill & Co.	Grocers				Water Leak.
12	10.53 a m	Tel		Rogers st.	T. F. McKay	T. F. McKay	"				Tar Kettle.
12	12.45 p m	6	12.48 p m	Mt. Vernon st.	O. Allen & Son.	O. Allen & Son.	Box Shop.				Spark set roof.
13	3.17 p m	62	3.29 p m	Gold st.	Wm. Reynolds.	Wm. Reynolds.	Dwelling				Stove Smoking.
13	9.01 a m	86	9.11 a m	Lane st.	S. C. Davis.	F. C. Hunt.	"	86.00	3,000.00	86.00	Children and Matches.
14	10.15 a m	131	10.25 a m	Howest.	Band N. R. R. Co.	Band N. R. R. Co.	Store Room.				Electric Wire.
14	12.45 a m	Still		Central st.	W. O. Fisk est.	Several	Stores & Offices.				Water Leak.
17	9.25 p m	Still		Chapel st.	A. C. Wheelock.	City	Dwelling.				Defective Chimney.
21	5.55 a m	Tel		Dracut	City	City	Rifle Range.	3,000.00	5,000.00	3,000.00	Unknown. Out of the City.
22	11.40 a m	Still		Page st.	G. T. White.	Several	Ash Barrel.				Hot Ashes.
22	12.10 p m	182	12.13 p m	Watson ave.	Jane Noble.	Several	Dwelling	270.50	1,200.00	270.50	Chimney.
22	7.36 p m	125	7.55 p m	Lewis st.	R. G. Bartlett.	"	"				Oil Stove.
22	7.37 p m	Still		Centre st.	W. B. Spaulding.	W. B. Spaulding.	"				Gas Jet and Curtain.
24	10.58 a m	5	11.08 a m	Fletcher st.	Ryan Bros.	T. H. Doyle.	Barber Shop.	92.18	400.00	92.18	Gas Heater set floor.
25	9.17 p m	9	9.30 p m	Adams st.	Mrs. Walsh.	Mrs. Walsh.	Dwelling.	155.00	2,000.00	155.00	Careless smoking set lounge

# OCTOBER.

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce Paid	Amount Insu'nce Paid	Cause of Fire
1	7.45 a m	222	.....	.....	.....	.....	.....	.....	.....	.....	No School.....
1	1.15 p m	222	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	9.17 a m	62	9.34 a m	School st.	J. Lennon	Mrs. J. McCurdy	Dwelling	\$ 35.00	\$ 35.00	.....	Bed Supposed smoking
4	8.45 a m	Still	.....	Charles st.	P. Watson	P. Watson	Bake Shop	25.00	6,200.00	.....	Hot coals from oven set floor
6	1.25 p m	Still	.....	Davidson st	L. T. Montfrand	Several	Dwelling	.....	.....	.....	Def. chimney set mattress
6	9.50 p m	Still	.....	Payne st.	..... [bride	.....	Dump	.....	.....	.....	Dump
8	10.00 p m	Still	.....	Palmer st.	O'Donnell & Gil	O'Donnell & Gil	Restaurant	.....	.....	.....	Cigar Stub
9	12.26 p m	Still	.....	Merrinack st.	J. H. Harrington	F. Putnam	Printing Office	.....	.....	.....	Fat on stove
9	7.05 p m	Tel	.....	Gorham st.	B. and N. R. R	J. H. Harrington	Car	70.00	5,000.00	70.00	Def. chimney set floor
10	10.32 a m	Still	.....	West London st	City	City	School House	.....	.....	.....	Defective Motor
11	9.00 a m	25	9.10 a m	Hall st.	Ernest Daigle	Ernest Daigle	Dwelling	.....	.....	.....	Children and matches set
11	7.08 p m	Still	.....	Lewis st.	.....	Several	"	.....	.....	.....	Children and matches set
13	11.14 a m	Still	.....	John st.	J. Nesmith est.	.....	"	.....	.....	.....	Oil Lamp
13	7.00 p m	Still	.....	Central st.	W. B. Spaulding	Singer Sewing M.	Sewing Machines	.....	.....	.....	Chimney Smoking
14	9.03 a m	241	9.16 a m	East Pine st.	J. W. Bennett	Several	Dwelling	272.00	600.00	272.00	Oil Stove
15	7.15 a m	Still	.....	Fairmont st.	Wm. Owens	Wm. Owens	"	.....	.....	.....	Chimney
16	6.30 p m	Tel	.....	Jefferson st.	P. H. Savage	.....	Boiler Room	.....	.....	.....	Combustion of coal
16	3.07 p m	Tel	.....	Merrinack st.	J. L. Joy, Trustee	"	Shed	.....	.....	.....	Out of the city
17	4.07 p m	Aut	6.40 p m	Moody st.	P. Keefe	P. Keefe	Dwelling	.....	.....	.....	Chimney
18	3.13 p m	53	3.17 p m	Perry st.	A. Ayer est.	Several	Starr Tread Mfg.	12.00	4,500.00	12.00	Def. smoke stack set roof
22	3.12 p m	145	3.24 p m	Appleton st.	D. Murphy est.	Mason Tread Co.	Ash Barrel	15.00	2,000.00	15.00	Hot Ashes
23	8.30 a m	Still	.....	School st.	J. Smith est.	Several	Dwelling	.....	.....	.....	Rats Nest
24	10.08 p m	113	10.13 p m	French st.	S. Sirk	"	"	.....	.....	.....	Chimney
25	1.34 a m	21	1.39 a m	John ave.	..... [bride	.....	Ash Barrel	.....	.....	.....	Hot Ashes
26	12.11 a m	26	12.21 a m	Palmer st.	O'Donnell & Gil	O'Donnell & Gil	Awning	.....	.....	.....	Cigar Stub
27	9.37 a m	Aut	.....	Salem st.	I. M. Chase	.....	Ash Barrel	.....	.....	.....	Hot Ashes
27	6.00 p m	Still	.....	Perry st.	Mason Tread Co.	Mason Tread Co.	Starr Tread Mfg.	.....	.....	.....	Working on wires
28	7.45 a m	222	6.25 p m	Woodward ave.	E. H. Morse	McGauvern Bros.	Store House	.....	.....	.....	Unknown
29	7.45 a m	Tel	.....	Watson st.	Traders' Nat. Bank	Several	Dwelling	.....	.....	.....	Chimney
30	8.14 a m	Still	.....	Bridge st.	City	.....	Bridge	.....	.....	.....	No School
30	8.14 a m	Still	.....	Merrinack st.	H. Cambell	H. Cambell	Awning	.....	.....	.....	Cigar Stub
31	12.41 a m	23	12.58 a m	Bartlett st.	Thomas Barry	Thomas Barry	Dwelling	27.00	1,000.00	27.00	Chimney
31	12.41 a m	23	.....	Jewett st.	Thomas Barry	Thomas Barry	Shed	.....	.....	.....	Ash Barrel

# NOVEMBER.

Date	Time	Sig- na.	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insur'ce Paid	Amount Insur'ce Paid	Cause of Fire
3	4.55 p m	Still		Gorham st.	Agnes Gumb.	Miss E. Printys...	Fancy Goods...	\$ 80.00	\$4,500.00		Gas Jet set goods...
3	6.35 p m	Tel		Mammoth rd.	S. Chapin est.	Mrs. Chapin...	Stable		\$80.00		Chimney
4	7.37 p m	Tel		Central st.	Am. Express Co.	Am. Express Co.	Awning				Fire Works...
5	1.40 p m	Still		Bridge st.	City.	"	Bridge				Cigar Stub
6	7.37 p m	113	7.45 p m	"	G. W. Flint.	Mrs. J. E. Fitzgerald	Dwelling				Stove Smoking
7	1.29 p m	37	1.36 p m	Swift st.	P. Mahoney	Several.	"				Chimney
9	8.30 p m	Still		Market st.	J. Ladd est.	"	"				Combustion of rags in bbl.
10	2.03 p m	139	2.15 p m	Willie st.	J. Fitzgerald.	J. Fitzgerald.	Grass.				Grass
11	11.40 a m	15	11.53 a m	Whidden st.	H. E. Moore est.	"	"				Dump
12	2.40 p m	Still		"	Locks & Canals	"	"				"
13	9.01 p m	5	9.09 p m	Suffolk st.	Jas. Coffee.	Several.	Dwelling	25.00	3,000.00	25.00	Oil Stove.
13	9.15 p m	Still		Davidson st.	L. T. Monterfrand.	"	"				Chimney
14	9.15 p m	Still		Lawrence st.	J. McAvoy.	"	"				Ash Barrel.
15	7.28 a m	Still		North st.	J. McCarty	"	"	57.00	1,200.00	57.00	Rats' nest in partition.
15	7.31 a m	Tel		"	"	"	"				"
15	7.31 a m	35	8.00 a m	"	"	"	"				Same Fire.
15	11.30 a m			Pawtucket st.	D. Gage est.	"	Dump.				Dump.
21	3.00 p m			Perry st.	B. and M. K. R.	"	"				Grass
22	12.01 p m	51	12.24 p m	Thorndike st.	Wm. Farr.	Salois & Leath.	Blacksmith	25.00	1,000.00	25.00	Overheated Fire Forge.
23	4.48 p m	Still		Varnum ave.	Miss L. M. Fay.	"	"				Brush
24	7.30 a m	Still		Merrimack st.	Robbins est.	Stores and Offices.	"	9.15	8,000.00	9.15	Combustion
24	7.30 a m	Still		"	"	Miss N. M. Glidden	"	15.00	4,000.00	15.00	"
24	7.30 a m	Still		"	"	E. J. Medina	"	50.00	3,000.00	50.00	"
24	10.05 a m	Aut		West Adams st	Lowell Textile Co.	Lowell Textile Co.	Towell Mfg.				Loom caught fire.
24	12.30 p m	Still		Bridge st.	City.	"	Bridge.				Cigar Stub
24	4.55 p m	Tel		Lakeview ave.	Locks & Canals	"	Dwelling				Dump.
24	7.30 p m	Still		School st.	J. McCue.	J. McCue.	"				Gas chandler dropped.
26	12.45 p m	222		"	"	"	"				No School.
28	6.48 p m	Tel		Cross st.	Mrs. D. F. Lyons.	Mrs. D. F. Lyons.	Store and Dwelling				Gas Leak
29	7.02 p m	Tel		Merrimack st.	A. Wheeler est.	Miss A. Wheeler.	Dwelling	5.57	2,000.00	557.00	Gas jet set clothing
30	6.55 p m	Still		Chapel st.	P. Quinn.	Several.	"				Chimney



# DECEMBER.

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insurance	Amount of Insurance Paid	Cause of Fire
1	8:30 a m	Tel		Lakeview ave.	Locks & Canals.		Dump.				Dump.
2	1:10 p m	Tel		Central st.	H. B. Shattuck.	Several.	Stores and Offices.				Chimney.
3	1:26 p m	21	1:32 p m	Kirk ave.	J. W. Griffin.	"	Dwelling.				Child and matches set rags.
5	12:45 p m	222		Adams st.	Andrew Smith.	Several.	Dwelling.	\$ 35.00	\$1,500.00	\$ 35.00	No School.
7	4:53 p m	9	5:00 p m								Rags caught from chimney.
8	6:05 p m	222									No School.
10	1:45 a m	Still		Agawam st.	James Sheehan.	James Sheehan.	Dwelling.				Smoking in bed.
11	3:45 a m	Still		Arlington st.	H. Blanchard.	J. Blanchard.	"	405.00	3,000.00	405.00	Chimney.
12	5:22 p m	131	5:34 p m	off Fayette st.	J. F. Lyons.	Several.	"				Thawing water pipes.
14	8:22 p m	Still		Agawam st.	Patrick Nolan.	Patrick Nolan.	"				Chimney.
16	8:30 p m	Still		Newhall st.	Mrs. John Grady.	Mrs. John Grady.	"				
17	9:05 a m	26	9:32 a m	Cohurn st.	F. Beharrell.	Several.	"	322.23	3,000.00	322.23	Thawing water pipe.
18	9:12:55 p m	10	1:20 p m	Hudson st.	J. Davis est.	W. Franklin.	"	150.00	1,400.00	150.00	Child and matches.
19	12:55 p m	Tel		Bridge st.	J. M. G. Parker est.	Several.	"	24.00	1,000.00	24.00	Thawing water pipe.
20	1:13 p m	Still		Willow st.	Mrs. H. Long.	"	"				Same Fire.
21	9:37 a m	49	1:30 p m		C. Daly.	"	"	100.00			Thawing water pipe.
22	5:58 p m	125	6:23 p m	Suffolk st.	J. M. Chase est.	G. B. Kittridge.	"	99.65	5,500.00	99.65	Gas jet set cloths on hat rack
23	6:04 p m	152	6:28 p m	Salem st.	Tom Fay.	Several.	"				Thawing water pipe.
24	6:42 p m	Still			C. Daley.	"	"				Rekindled.
25	7:30 p m	125	7:40 p m	Suffolk st.	"	"	"				Same Fire.
26	9:37 a m	Tel		Merrimack st.	T. G. Gerrish.	Post & Rosenthal.	Tea and Coffee.	200.00	1,500.00	200.00	Unknown.
27	10:40 a m	25	9:57 a m	"	"	O'Sullivan Bros.	and Crockery	167.50	33,500.00	167.50	Same Fire.
28	10:45 a m	Still		Lane st.	W. H. Lyman.	W. H. Lyman.	Dwelling.	48.50	3,500.00	48.50	Hot stove set cloths.
29	10:25 a m	Tel		Merrimack st.	T. G. Gerrish.	Post & Rosenthal.	Tea, Coffee etc.				Rekindled.
30	12:46 p m	Tel		Leverette st.	Wm. Lee.	Several.	Dwelling.				Thawing water pipe.
31	4:07 p m	Still		Union st.	Dr. Dowes.	[bride	"				
1	11:27 a m	Still		Merrimack st.	O'Donnell & Gil-	O'Donnell & Gil-	Fancy Goods.				Combustion
2	5:55 p m	Still		"	Dr. J. H. Roy.	Dr. L. V. Rochette	Dwelling.	54.35	2,500.00	54.35	Gas jet and curtain.
3	12:55 a m	Tel		Charles st.	Charles McAvoy.	Several.	"				Oil Lamp.
4	5:44 p m	Tel									No School.
5	6:05 p m	222		Jackson st.	Wm. Mulcahey.	Wm. Mulcahey	Lunch Cart.	100.00			Naptha explosion.
6	6:11 p m	Tel		Central st.	Lowell Electric Co	R. Staple.	Pole.				Wires Grounded.
7	3:58 a m	Still		Palmer st.	John Turner.	John Turner.	Shoe Maker.				Oil Stove.
8	17:8:45 a m	Still		Branch st.	A. W. Dowes	Several.	Dwelling.	5.00	1,200.00	5.00	Hot stove set partition.
9	4:20 a m	Tel		Central st.	M. Corbett.	H. C. Cooper.	Ladies' Garments.	2,450.33	6,000.00	2,450.33	Unknown.
10	12:55 a m	19	1:33 a m	Gorham st.	"	A. McCann.	Shoe Shop.	100.00	650.00	100.00	From other fire exposure.
11	12:55 a m	19	1:33 a m	"	"	"	Dwelling.				Child set curtain with match
12	4:10 p m	225	4:19 p m	Worthen st.	L. Machine Shop.	P. J. Riley.	Junk Shop.	314.84	21,000.00	314.84	Spark from chimney set roof
13	3:11 p m	163	4:13 p m	Tanner st.	P. J. Riley.	"	"				

December 9, Nina Franklin, nine months old burned to death. Lounge set by sister. December 23, Margaret Franklin died 3 years old.

# DECEMBER—Continued.

Date	Time	Signal	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insurance Paid	Amount of Insurance Paid	Cause of Fire
23	3.12 p m	Still	.....	Varney st.....	Mrs. Mitchel.....	Mrs. Mitchel.....	Dwelling.....	\$ 65.00	\$2,700.00	\$ 65.00	Gas Jet set curtain.....
23	3.47 p m	23	4.14 p m	Riverside ave..	J. Burns.....	Several.....	".....	50.00	800.00	50.00	Defective Chimney.....
23	11.00 p m	Still	.....	High st.....	T. J. Sanborn.....	".....	".....	.....	.....	.....	Chimney.....
24	1.10 p m	Still	.....	Liberty st.....	F. McCarron.....	Mrs. A. A. Wood.....	".....	.....	.....	.....	Oil Stove.....
26	12.55 p m	Tel	.....	Mill st.....	Mrs. A. A. Wood.....	F. McCarron.....	".....	79.30	2,000.00	78.95	Unknown.....
27	1.53 a m	Tel	.....	Middlesex st...	H. B. Shattuck.....	Mrs. M. Keyes.....	".....	20.00	4,500.00	20.00	Defective chimney set wood
27	4.30 a m	Tel	.....	Market st.....	Mrs. B. Collins.....	A. B. Tergahis.....	Fancy Goods.....	45.00	2,500.00	45.00	Defective Chimney.....
28	10.28 a m	Still	.....	Central st.....	Charles McAvoy.....	Several.....	Dwelling.....	.....	.....	.....	Chimney.....
29	10.47 a m	15	11.04 a m	off Bleachery st	A. C. Wheelock.....	J. H. Scobie.....	".....	47.00	1,500.00	47.00	Children and Matches.....
29	6.16 p m	75	6.24 p m	Gardner ave.....	J. W. Jorden.....	Several.....	".....	.....	.....	.....	Oil Stove.....

Insurance  
 Buildings.....  
 Contents.....  
 Loss  
 \$32,836.98  
 78,006.08  
 \$110,843.06  
 Insurance Paid  
 \$32,636.98  
 75,838.66  
 \$108,475.64  
 Valuation  
 \$336,000.00  
 346,392.99  
 \$1,182,392.99

FIRES—Bell, 164; Still, 131; Telephone, 103; Automatic, 15; Total, 413. Reported, 67.

# Schedule of all the reported Fires which occurred in the City of Lowell during the year ending Dec. 31, 1902.

## JANUARY.

Date	Sig- nal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce	Amount Insu'nce Paid	Cause of Fire
1	Still	.....	.....	Merrimack st.	Oblate Fathers....	Oblate Fathers....	Church .....	\$ 165 00	\$2,000.00	165.00	Candle set Alter ornaments
4	"	.....	.....	Fernald st.	Mrs. N. Wheeler....	Mrs. Blaisdell....	Dwelling .....	37 25	5,000.00	37.25	Gas Jet set curtain.....
4	"	.....	.....	Merrill st.	M. C. Handley est.	.....	" .....	17 37	2,000.00	17.37	.....
9	"	.....	.....	Highland st.	A. Adams est.	Mrs Adams.....	" .....	25.00	3,500.00	25.00	Spirit Lamp exploded.....
19	"	.....	.....	Tenth st.	C. I. W. Maynard..	C. I. W. Maynard..	" .....	10.00	2,600.00	10.00	.....
26	"	.....	.....	Houghton st.	Mrs. Doak.....	Mrs. Doak.....	" .....	22.00	800.00	22.00	.....

# FEBRUARY

Date	Sig- nal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce Paid	Amount Insu'nce Paid	Cause of Fire
1	Still			Third st....	P. Fay.....	P. Fay.....	Dwelling .....	\$ 6.00	\$ 2,000.	\$ 2.00	.....
4	"			Appleton st....	Annie M. Crawford	.....	"	12.15	2,000.	12.15	Oil Lamp.....
14	"			Sanborn st....	E. A. Sanborn.....	E. A. Sanborn.....	"	20.00	2,300.	20.00	Lamp and Curtain.....
16	"			Paige st....	Unknown.....	L. H. Carroll.....	"	50.00	1,000.	50.00	Oil Lamp.....
19	"			Wilder st....	G. F. Parker.....	G. F. Parker.....	"	1.54	-	1.54	.....
20	"			Concord st....	J. Liston.....	J. Liston.....	"	10.00	2,500.	10.00	Pipe in pocket.....
21	"			Metheun st....	G. B. Mevis.....	G. B. Mevis.....	"	15.00	500.	15.00	.....
21	"			Common st....	Smith & Miles.....	Smith & Miles.....	"	26.00	2,000.	26.00	Spark set wood work.....
22	"			Rundlette st....	R. Helljwell.....	R. Helljwell.....	"	15.50	700.	15.50	.....
22	"			Butterfield st...	M. A. Rowlinson...	M. A. Rowlinson...	"	38 25	1,000.	38 25	Children and Matches...

# MARCH.

Date	Sig- nal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce Paid	Amount Insu'nce Paid	Cause of Fire
6	Still			Paige st.	J. C. Abbott.		Dwelling	\$ 2.00	2,500.00	2.00	
8	"			Merrimack st.	E. Constantine.	E. Constantine.	"	3.00	3,000.00	3.00	Match and Curtain.
13	"			Staples st.	Robt. Staples.	R. Staples.	"	15.00	1,500.00	15.00	Overheated stove.
20	"			Marlborough st.	H. R. Noyes.	H. R. Noyes.	Stable	65.00	1,800.00	65.00	
31	"			Moore st.	E. W. Stott.	E. W. Stott.	Dwelling	3.00	500.00	3.00	

# APRIL.

Date	Sig- nal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce	Amount Insu'nce Paid	Cause of Fire
1	Still			Pine st.....	Lizzie Lane.....	Lizzie Lane.....	Dwelling .....	\$ 10.00	\$2,000	\$10.00	Gas jet and curtain.....
6	"			Merrimack st..	S. J. Constantine...	S. J. Constantine...	" .....	15.00	1,000	15.00	Friction in picker.....
10	"	2.00 p m		Bridge st.....	Mass. Cotton Mill..	Mass. Cotton Mill..	Picker Room.....	341.23	1,444,000	341.23	Friction in picker.....
12	"			Fletcher st.....	J. H. Henderson...	J. H. Henderson...	Dwelling .....	11.25	1,500	11.25	Careless use of matches....
22	"			Wilder st.....	G. E. Parker.....	G. E. Parker.....	" .....	9.25	7,500	6.25	Spark set wood work.....
29	"			Wilson st.....	W. H. Bagshaw est	W. H. Bagshaw est	Picker Pine Mfg...	35.00	15,000	35.00	Friction .....

# MAY.

Date	Sig- nal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce Paid	Amount of Insu'nce Paid	Cause of Fire
8	Still			Alken ave.....	J. A. Foisy.....	.....	Awning.....	\$ 12.00	\$ 12.00	.....	.....
10	"			Simpson st.....	W. D. Brown.....	.....	Dwelling.....	20.50	20.50	.....	.....
10	"			West Adams st.....	S. B. Puffer.....	.....	"	15.00	15.00	.....	.....
14	"			Church st.....	A. Thompson.....	.....	"	20.00	20.00	.....	Hot Ashes.....
24	"			Mammoth rd.....	A. F. Jewett.....	.....	"	16.00	16.00	.....	Lightning.....
24	"			"	D. V. Webster.....	.....	"	1.53	1.53	.....	"

# JUNE.

Date	Sig- nal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce	Amount Insu'nce Paid	Cause of Fire
4	Still	.....	.....	Andover st.....	Annie Garuen.....	.....	Dwelling.....	\$ 35.00	\$ 3,500	\$ 35.00	.....
13	"	.....	.....	Wilson st.....	J. W. Crosby.....	J. W. Crosby.....	"	17.40	3,000	17.40	.....
18	"	.....	.....	Suffolk st.....	A. Coffre.....	.....	"	15.50	1,500	15.50	.....
20	"	.....	.....	E Merrimack st.....	.....	Etta Shedd.....	"	44.50	2,000	44.50	.....



# JULY.

Date	Signal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damaged	Amount of Insu'nce Paid	Cause of Fire
10	.....	10.30 a m	.....	Jackson st.....	Hamilton Mfg. Co.	Hamilton Mfg. Co.	Cotton Mill.....	\$1,023.63	\$1,023.63	Truck and Match.....
14	.....	9.00 a m	.....	Bridge st.....	Mass. Cotton Mills.	Mass. Cotton Mills	"	150.00	150.00	Friction in roller.....
15	Still	.....	.....	School st.....	Sarah Hart.....	.....	Dwelling.....	50.00	50.00	.....
17	"	.....	.....	Market st.....	T. Eutwistle.....	.....	Machine Shop.....	12.65	12.65	.....
17	.....	1.30 p m	.....	Jackson st....	Appleton Co.....	Appleton Co.....	Cotton Mill.....	84.24	84.24	.....
31	.....	7.00 p m	.....	Prince st.....	Mer'k Print Works	Mer'k Print Works	Printing.....	2,442.44	2,442.44	Combustion.....

# AUGUST.

Date	Sig- nal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce	Amount Insu'nce Paid	Cause of Fire
23	Still			School st.....	John Lennon.....	John Lennon.....	Dwelling.....	\$ 200	\$ 4,550	\$ 200	Lightning .....

# SEPTEMBER.

Da	Sig- nal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce	Amount Insu'nce Paid	Cause of Fire
8	Still	.....	.....	Adams st.....	Tom Fay.....	Several.....	Dwelling.....	\$ 10.00	\$ 1,500	\$ 10.00	Defective Chimney.....
10	"	.....	.....	Liberty st.....	M. J. Martin.....	".....	".....	11.16	2,500	11.16	.....
21	"	.....	.....	Fenwick st.....	H. Sullivan.....	".....	".....	26.29	2,500	26.29	Lamp exploded.....
		.....	.....	Cambridge st...	H. Reynolds.....	.....	.....	35.00	1,200	35.00	.....

# OCTOBER.

Date	Signal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce	Amount Insu'nce Paid	Cause of Fire
2	Still			Branch st.	E. Kelly		Dwelling	\$ 13.36	\$ 2,500	\$ 13.36	
10	"			Durant st.	M. Gilman		"	5.00	1,000	5.00	
21	"			Huntington st.	S. Bunker		"	13.00	3,000	13.00	
21	"			"	H. B. Norcross		"	21.50	2,000	21.50	
20	"			Mt. Hope st.	E. Hoyle		"	47.00	1,800	47.00	
23	"			Suffolk st.	Tremont & Suffolk	Tremont & Suffolk	Cotton Mill	2,123.38	801,000	2,123.38	
28	"			Huntington st.	H. B. Norcross	H. B. Norcross	Dwelling	34.50	5,000	34.50	

# NOVEMBER.

Date	Sig- nal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce Paid	Amount Insu'nce Paid	Cause of Fire
2	.....	7.30 a m	.....	Varney st.....	Merrimack Mfg Co.	Merrimack Mfg Co	Print Works.....	\$1,605.00	\$2,000,000	\$1,605.00	Steam Pipe set lint.....
3	.....	.....	.....	Cushing st.....	T. F. Maguire.....	.....	Dwelling .....	7.50	1,600	7.50	.....
8	.....	.....	.....	Westford st...	C. B. True.....	.....	" .....	4.50	1,500	4.50	.....
9	.....	.....	.....	.....	C. L. Sweetser.....	.....	.....	20.00	1,500	20.00	.....
19	.....	4.00 p m	.....	Lawrence st...	Mass. Cotton Mills.	Mass. Cotton Mills	Cotton Mill.....	247.75	1,444,000	247.75	Friction .....
20	.....	.....	.....	.....	Waterhead MillsCo	Waterhead MillsCo	Mill.....	231.53	1,67,500	231.53	.....
21	.....	.....	.....	.....	Merrimack Mfg Co.	Merrimack Mfg Co	Store House.....	5,579.64	2,000,000	5,579.64	Unknown.....

# DECEMBER.

Date	Signal	Time	Recall	Location	Owned by	Occupied by	Occupied as	Amount of Damage	Amount of Insu'nce Paid	Amount of Insu'nce Paid	Cause of Fire
12				Lincoln st.....	Mary J. Moore.....	Mary J. Moore.....	Dwelling.....	\$ 13.00	\$ 500	\$ 13.00	Oil Lamp exploded.....
12				Central st.....	J. Clerk.....	"	"	1.50	500	1.50	"
12				Riverside st....	D. J. Murphy.....	"	"	15.00	1,200	15.00	"
27				High st.....	Dr. J. P. McAdams	"	"	15.00	3,000	15.00	"
Loss on Buildings and Contents.....								Insurance	Paid	Valuation	Fires
								\$ 13,358,550.00	\$ 15,304.89	\$ 16,543,200.00	67



ANNUAL REPORT

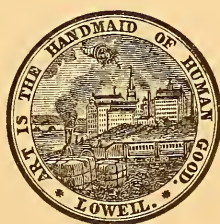
OF THE

Superintendent of Street Lights

OF THE

CITY OF LOWELL

For the Year 1902



LOWELL, MASS.,  
PRESS OF BAKER PRINTING COMPANY  
1903





# REPORT.

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LOWELL, January 1, 1903.

*To the Mayor and Board of Aldermen :*

GENTLEMEN :—Herein is submitted the Annual Report of the Superintendent of Street Lights, for the year ending December 31, 1902.

The lighting of the Streets is all done by contract, with a rebate for all lights not burning the designated time. In addition to the Police who report all lights not burning, and out of order ; one permanent man

from the Fire Department (but paid for by this department) is detailed to look after all lights and see that they are kept in good order, and giving the amount of light the city pays for.

The Board of Aldermen at their meeting in December ordered 3 electrics, 5 gas, and 9 gasoline lights which have not been put in yet. A new contract was made with the Electric Light Co. the past year, at the same price as the old one, the lamps to be changed to the enclosed arc, which gives a much better light. The change is being made now. At present there are 507 lights, 6 of which were added the past year, located as follows : Merrimack Square ; Middlesex Street, corner Elliot ; Gorham Street, opposite the entrance to No. 2 Cemetery Gate ; Chelmsford Street, near the entrance to the stairs of the Boston and Maine R. R. ; Lakeview Avenue, corner Ottawa Street ; School, corner Shaw Street. The locations of the last 3 ordered but not in, are as follows : Market, corner Shattuck Street ; Pine Street, corner Landers Avenue ; Suffolk Street, opposite entrance of Parochial School. There are also 8 lights on Fort Hill Park that burn about four months in the year.

The gas and gasoline lighting is contracted with the Welsbach Street Lighting Co. The gas contract expires September 1905, and the gasoline June 1906. The price for the gas lights is \$23 per

year, burn every night but four in each month, until 1 o'clock A. M. The gasoline lights cost  $9\frac{1}{4}$  cents a light per night, they burn twenty-five nights each month until 1 o'clock A. M. At present the service of the gasoline lights are very poor. At present there are 1104 gas lights, 12 of which were added the past year, located as follows: Newhall; Gorham, corner Ellsworth; Woodcock, Fulton; Lakeview Avenue, corner Campaw; Hurd, Ottawa, E. Prospect, Waugh, Tolman and Gage Avenues. There has been two discontinued on account of electric lights, Middlesex and School Streets. The locations of the 5 not in are as follows: Doane, Jefferson, Avon, B and New Nichols Streets; 7 of the gas lights burn all night at a cost of thirty dollars per year, and there are 3 double burners that cost \$36.50 per year. There are 400 gasoline lights, four of which were added the past year, located as follows: O'Brien and Worthen Courts, West Sixth and Magnolia Streets; 6 have been changed to gas, 3 on Sutherland and 3 on Chelmstord Streets. The locations of the 9 not in are as follows: Magnolia, near the brook; First, corner Llewellyn; Boylston; Princeton, corner Wightman; Corey, 1 each; Cashin and Dingwell Streets, 2 each. There are 21 gas lights owned by the different Corporations the City paying for the gas.

The following statement will show the Appropriation and Expenditures for the year 1902.

## APPROPRIATION.

Labor and Sundries.....	\$ 12,500 00
Electric Lights: Streets.....	60,988 00
Gas: Streets and Public Buildings.....	25,601 00
Gasoline Lights.....	11,156 00
New Lights.....	500 00
	<hr/> \$ 99,495 00

## EXPENDITURES.

Labor and Sundries.....	\$ 1,157 66
Electric Lights: Streets.....	60,859 33
Gas: Streets and Public Buildings.....	25,441 51
Gasoline Lights.....	10,942 64
	<hr/>
	\$ 98,401 14
Transferred to General Treasury Fund	1,093 86
	<hr/> \$ 99,495 00

The value of all Property as near as can be ascertained in care of the Superintendent of this Department is \$17,000.00.

Respectfully submitted,

EDWARD S. HOSMER,

Superintendent.



ANNUAL REPORT

OF THE

BOARD OF POLICE

FOR THE

YEAR ENDING JUNE, 1903



LOWELL, MASS.

COURIER-CITIZEN COMPANY, PRINTERS

1903





# ANNUAL REPORT.

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OFFICE OF THE BOARD OF POLICE, }  
June 1, 1903. }

*Hon. Charles E. Howe, Mayor City of Lowell:*

DEAR SIR:—The Board of Police of the City of Lowell has the honor to submit herewith the annual report of the administration of the Lowell Police Department for the year ending May 31, 1903.

The personnel of the Lowell Police Department administered by this Board consists of one superintendent of police, one deputy superintendent, one captain, four lieutenants, three sergeants, five inspectors, 125 patrolmen—98 regular and 28 reserve officers—one electrician, one telegraph operator, one machinist, one messenger, one stenographer and typewriter, one matron, three patrol wagon drivers, one hostler, and one charman.

The discipline of the force during the year has been excellent, five officers only having been brought before the Board to answer to complaints against them. In one case the charges were shown to be unfounded and were dismissed; in two cases the officers were disciplined by fine and deprivation of vacation; and in two others the charges were deemed serious enough to merit the dismissal from the force of the offenders.

An old and respected officer, who had been placed on the retired list—Isaac Libby—died during the year; and Patrolman John R. Mackenzie, who had been permanently incapacitated by injuries received in the discharge of his duties, was added to the pension list. Patrolman Thomas Ingalls, who retired from the force before the police pension act became operative in Lowell, was made eligible for its benefits by a special act of the legislature (Chapter 198 of 1902) and was placed on the retired list with the usual pension.

During the month of May Patrolman William B. Jones died after a long and honorable connection with the Lowell police force. A man of quiet and unobtrusive nature and possessed of many sterling qualities, he was an excellent and efficient officer, fearless and active in the discharge of his duties. In the last years of his life he was on duty at City Hall, where his unvarying kindness and courtesy were conspicuous and noteworthy. This Board desires to place on record an expression of its esteem for the deceased officer, and to state that his death is a distinct loss to the force he served so long and faithfully.

This Board has been striving for years to secure some local legislation to regulate the business of loaning money in sums of less than two hundred dollars at high rates of interest and secured by collateral exempt from taxation. The frequent complaints made to this Board showed that those who suffered most

from the unregulated conduct of the business were largely people of small means, deficient in knowledge of the law and easily victimized by unscrupulous persons. The Board fully appreciated the fact that there was a demand for small loans, and that as a rule the rates of interest were high and sometimes usurious; but it felt that while no law could eradicate folly or abolish greed, restrictions could be placed around the transactions to remedy the more glaring of their evils. The attention of the City Council was called to the matter and a request made that suitable legislation be made to complement the laws already existing, and enable the Board to meet the local situation. When an ordinance was finally enacted by the City Council it was found to be defective and inoperative, and the interest displayed by the City government in remedying its defects was somewhat languid. The legislature of 1902 was appealed to and it enacted Chapter 151 of 1902, which transferred the power to control, license and regulate the business to the Board of Police.

In formulating its rules and regulations the Board availed itself of the practice and experience of other cities, for it wanted to deal with actual, not ideal conditions. Excessive interest would always be charged where the security offered was unsatisfactory, and sharp practices were pretty certain to mark the kind of business. The best the Board could hope to do was to protect people from their own improvidence and eliminate

the dishonest and unfit from the businesss, if possible. The rules and regulations adopted follow, and have so far worked well and with measurable fairness to lender and borrower.

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## RULE

### Of Small Loans on Household Furniture, Etc.

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SECTION 1. The Board of Police will, upon petition, license suitable persons to make loans secured by mortgage or pledge of household furniture or other personal property exempt from attachment, or by assignment of wages for personal service, for less than two hundred dollars, and at a rate of interest greater than twelve per cent., pursuant to Chapter 102 of the Revised Laws and amendments thereto.

All such licenses shall expire on the first day of September next succeeding their date. Applications for such licenses shall be made at least one month before the same are to be issued, and shall be published at the expense of the applicant, to be paid in advance, by the Board of Police, in two or more daily newspapers published in the city of Lowell. Applications for such licenses shall be examined into and reported on by the Superintendent of Police. A fee of fifty dollars shall be paid for each such license at the time the same is issued. (Revised Laws, chap. 102.)

SECT. 2. No such license shall be granted until the applicant or applicants therefor shall file with the Board of Police a statement verified by oath, which in the case of a corporation may be the oath of the president thereof or the agent thereof in charge of such business, setting forth the place in the city where the business is to be carried on, the name or names and the private and business address or addresses of the applicant or applicants, and, in case of a corporation, the state under the laws of which it is organized, and the name or names and private address or addresses of the clerk or secretary and the agent or other officer

having charge of its proposed business, nor until the applicant or applicants shall, unless excused by the Board of Police, file with said Board a power of attorney appointing some person satisfactory to the Board to be his, their or its attorney, upon whom all lawful processes may be served in any action or proceeding arising under Revised Laws, chap. 102, with the same effect as if served upon such applicant or applicants appointing such attorney. If any change occurs in the name or address of any licensee, or of the clerk, secretary or agent aforesaid of any licensed corporation, or in the place where the licensed business is carried on, or in the membership of any copartnership licensed, a true and full statement of such change, sworn to in the manner required above in the case of the original statement, shall forthwith be filed with the Board of Police. (Chap. 102, sect. 58, Revised Laws.)

SECT. 3. No license shall be issued unless or until the licensee or licensees named therein shall file with the treasurer of the city of Lowell a bond in the penal sum of five hundred dollars, executed to said treasurer by said licensee or licensees, and by a surety or sureties, to be approved by the Board of Police, which bond shall be conditioned for the faithful performance, by the licensee or licensees, of the duties and obligations pertaining to the business so licensed, and the prompt payment of any final judgment recovered against the licensee or licensees, or for the payment of which any individual of the licensees may be legally bound under or by virtue of Revised Laws, chap. 102, and for the payment of any special judgment, and for the compliance with any special decree rendered against such licensee or licensees. The Board of Police may at any time require the licensee or licensees to file one or more additional bonds of like nature and with like effect, and to give full information as to all judgments recovered on, or suits pending on, his or their bonds, at any time.

The Board of Police hereby requires that all persons licensed under this rule shall make a report to the said Board in writing of every suit brought upon any bond given by such licensee pursuant to the provisions of Revised Laws, chap. 102, not later than ten days from the return day of the writ or other process by which such suit was commenced, which statement



shall set forth the *ad damnum* of the writ and the names and residences of the parties to such suit, the court in which it was brought and the docket number thereof, if any. And if such suit was not duly entered in such court such fact shall be stated, and upon any late entry of such suit notice thereof in writing shall be sent by such licensee to the Board of Police within twenty-four hours of such late entry. And when any such suit is finally disposed of, either by judgment or decree, or order of the court, or by settlement, such licensee shall, within twenty-four hours thereof, give notice to said Board, in writing, setting forth the result of such suit or settlement, and the amount and terms of such judgment, order or decree, and the terms of settlement, and the amount of money or other consideration given or promised therefor. (Revised Laws, chap. 102, sect. 59.)

SECT. 4. In the case of any loan to which the provisions of chap. 102, Revised Laws, apply, a sum not exceeding two dollars if the loan does not exceed twenty-five dollars, not exceeding ten dollars if the loan exceeds one hundred dollars, not exceeding three dollars if the loan exceeds twenty-five dollars but does not exceed fifty dollars, and not exceeding five dollars if the loan exceeds fifty dollars but does not exceed one hundred dollars, may, if both parties to the loan so agree, be paid by the borrower or borrowers, or added to the debt, and taken by the lender as the expense of making and securing the loan, and such sum shall not be counted as part of the interest of such loan. No greater sum than as above specified shall be taken for such purpose, and any sum paid, promised or taken in excess of such sum shall be deemed to be taken as interest, and shall be so considered for the purposes of chap. 102, Revised Laws. Provided, however, that upon a renewal of any loan, no such charge shall be made or taken by the lender.

SECT. 5. Interest may be charged by persons licensed under this rule as follows: On loans not exceeding twenty-five dollars at the rate of four per cent. per month; on loans exceeding twenty-five dollars and not exceeding one hundred dollars at the rate of three per cent. per month; and on loans exceeding one hundred dollars at the rate of two per cent. per month.

SECT. 6. In case any loan to which the provisions of chap. 102, Revised Laws, apply, is secured by mortgage or pledge of personal property or by assignment of wages, the mortgage shall be discharged, the pledge restored, or the assignment released, upon payment or tender of the sum legally due under the provisions of chap. 102, Revised Laws, and such payment or tender may be made the debtor, by any person duly authorized by him, or by any person having an interest in the property mortgaged or pledged or in the wages assigned. No person licensed pursuant to chap. 102, Revised Laws, shall refuse or neglect after request to discharge a mortgage, release an assignment, or restore a pledge to the party entitled to receive the same after payment of the debt secured thereby or the tender of the amount due thereon as aforesaid. (See chap. 102, sect. 63, Revised Laws.)

SECT. 7. Every mortgage or pledge of personal property or assignment of wages, to which the provisions of chap. 102, Revised Laws, apply, shall state with substantial accuracy the actual amount of the loan, the time for which the loan is made, the rate of interest to be paid, and the expense for making and securing the loan, and a provision that the debtor shall be notified of the time and place of any sale to be made in foreclosure proceedings, at least seven days before such sale, by leaving with him or with the person in possession of the property claiming the same, a written notice of intention to foreclose, or by publishing it at least once a week, for three successive weeks, in one of the principal newspapers published in the city or town where the mortgage is properly recorded or where the property is situated; or, if there is no such paper, in one of the principal newspapers published in such county. And every notice of intention to foreclose given by any such licensee shall expressly state where such notice is to be recorded, and that the right of redemption will be foreclosed sixty days after such recording. At any time after twenty days from the date of any such mortgage, if the same has not been recorded, the holder thereof shall forthwith, on demand and payment or tender of one dollar, give to the mortgagor, or any person interested in the mortgaged property, a copy of the mortgage and note or obligation secured thereby, which



such holder or holders shall certify to be a true copy thereof. (See chap. 102, sect. 64, Revised Laws.)

SECT. 8. Whenever any loan is made to which the provisions of chap. 102, Revised Laws, apply, the lender shall give to the borrower, free of charge, a ticket of a form to be approved by the Board of Police, setting forth plainly in the English language the real nature and substance of the transaction, and the names and residences of all the parties thereto, and specifying the property mortgaged or the wages assigned, the date on which the mortgage or assignment was made, the date on which the debt is to become due, and the rate of interest to be paid thereon calculated at an annual rate of percentage. There shall be a copy of sects. 4 and 5 of this rule printed upon each ticket, and each such ticket shall bear a number corresponding with the number of the book entry of the loan. (See sect. 9 of this rule.) Whenever any payment is made on account of any loan to which the provisions of chap. 102, Revised Laws, apply, the person receiving the payment, or his principal, shall, when the payment is taken, endorse on the back of such ticket the date of such payment, the amount then paid, a statement as to whether it is interest or a payment on account of principal, a statement of the total amount, both principal and interest, previously paid on such loan, and a statement of the amount still due on the principal after such payment. And the person receiving such payment, or his principal, shall sign such endorsement. If such ticket is lost or destroyed, the lender shall furnish the borrower, on demand, a duplicate of such ticket, free of charge, setting forth all the endorsements that were or ought to have been upon the original ticket, or upon any duplicate thereof, at the time of its loss.

SECT. 9. Every licensee licensed under this rule shall keep a book of a form and style to be approved by the Board of Police in which shall be entered at the time each loan is made an accurate copy of the ticket issued to the borrower, in accordance with section 8 of this rule. Every such licensee shall enter in such book at the time of each payment by the borrower the date of such payment, the amount then paid, a statement whether it is interest or a payment on account of principal, a statement of the

total amount, both principal and interest, previously paid on such loan, and a statement of the amount still due on the principal after such payment. There shall be a separate page or a separate portion of a page in such for each loan, numbered consecutively, in which shall be entered all the entries and transactions relating to such loan, and the number on such page or portion of a page shall correspond with the number on the ticket furnished to the borrower in accordance with sect. 8 of this rule.

Every such licensee shall, on the first day of each month, send a written report, of a form and size to be approved by the Board of Police, to the Superintendent of Police, of all business done by him since the making of his last monthly report, to which the provisions of chap. 102, Revised Laws, apply. Such report shall state briefly all loans made by him and the nature of the security therefor, all loans paid off, all mortgages and assignments discharged and all mortgages foreclosed, and shall set forth the names and addresses of all parties to each transaction, and all the dates and amounts of each transaction. The information so received by the Superintendent of Police shall not be divulged by him, except when he is required so to do by law or by order of the Board of Police.

Every such licensee shall at all times allow any member of the Board of Police, or any police officer authorized by the said Board, in writing, to inspect all books, accounts and papers of such licensee relating to all loans made by such licensee. (Chap. 102, Revised Laws.)

SECT. 10. Any person or persons not being duly licensed, as provided in chap. 102, Revised Laws, who, on his or their own account, or on account of any other person or persons, copartnership or corporation not so licensed, shall engage in or carry on, directly or indirectly, either separately or in connection with or as part of any other business, the business of making loans, to which the provisions of chap. 102, Revised Laws, apply, shall be punished by a fine of not more than three hundred dollars, or by imprisonment in the house of correction not more than sixty days, or by both such fine and imprisonment. (Chap. 102, Revised Laws.)

SECT. 11. The Board of Police has authority to revoke all licenses issued pursuant to chap. 102, Revised Laws, for cause, at any time after hearing. Any such license shall be revoked for failure to file any bond required by the said Board. The Board of Police will revoke any such license for violation of any statute or police rule relating to the business of the licensee, or for any other cause deemed sufficient by the Board of Police. (Chap. 102, sects. 58 and 59, Revised Laws.)

Minor licenses as follows have been issued during the year:—

Common victuallers . . .	347	Dealers in second hand	
Innholders . . . . .	13	goods . . . . .	11
Intelligence offices . . .	14	Night lunch wagons . .	8
Pawnbrokers . . . . .	10	Fish wagons . . . . .	13
Express wagons . . . . .	215	Hackney coaches . . .	42
Pool and billiard rooms .	49	Theatres . . . . .	6
Auctioneers . . . . .	28	Amusement permits . .	87
Hawkers and peddlers . .	684	To loan money, etc. . .	5
Junk collectors . . . . .	94	Circus . . . . .	1
Junk dealers . . . . .	22		

The amount of money received from minor licenses in fees amounted to \$2728.80.

At the last municipal election the people voted to prohibit the sale of intoxicating liquors in Lowell during the license year of 1903-4, and the prohibitory season began May 1, 1903. While it lies within the discretion of the Board of Police to grant licenses to sell intoxicating liquors to registered pharmacists, the Board has been of the opinion that the enforcement of the law would be simplified by refusing to grant such licenses. The Superintendent of Police was given

full authority to proceed in such manner and to adopt such means as he believed would secure an effective and thorough enforcement of the expressed wishes of the voters ; and he has since adopted measures of discipline and detail which are producing good results. Nevertheless, as there exists in the mind of the public a good deal of misconception as to the scope of the law and the extent of the authority of those who enforce it, it may not be out of place to make a few statements of fact at this time which may help to give a cooler and more correct view of the value of the vote taken at the polls, and of the results likely to be obtained under a no-license law.

No-license does not mean no drinking, because no-license does not mean that the buying of intoxicating liquors ceases as soon as the law goes into effect. The no-license law simply means that the local licensing board shall have no authority to grant licenses to sell intoxicating liquors in Lowell ; but it does not mean that liquor cannot be bought elsewhere and brought to Lowell. By complying with the plain and simple requirements of the transportation law, any citizen desiring intoxicating liquors can obtain all he wants, keep it in his house and use it wisely or unwisely, as his taste and thirst may direct. Since the first of May citizens have availed themselves of this law and have brought into Lowell some 41,215 gallons of beer and ale, and 1,690 gallons of hard liquors.

The so-called open saloon has been closed and its activities for good or evil have been transferred to and divided between the express companies and the homes. About \$171,000 in direct revenue has been lost to city and state; some hundreds of thousands of dollars worth of assessed property has gone from the levy of the tax collector, and the money usually expended for liquor in this city is being sent elsewhere to swell the trade of other cities. These, however, are mere matters of detail, which will disturb no one, if the general average of law and order, sobriety and happiness, is raised. As a general proposition, virtue is its own reward, and the good people of Lowell will probably obtain the usual results plus the approval of their consciences. There may be, and doubtless has been, some illegal traffic in intoxicating liquors since the first of May; but it has been small in volume and secret and shifty in character, the vigilance and activity of the police making this sort of illegality dangerous and unprofitable. While there are people in every community willing to risk arrest and punishment by engaging in profitable, if illegal, business, there are not many who are anxious to run risks when the business is unprofitable. It is well to remember that while enthusiasm may run high at the polls for no-license, the efforts of the police to enforce the law later are not always supported with an excess of ardor. The illegal vendor cares more for profits than ethics; his



patrons are not lying awake nights to aid the police; the average citizen is busy minding his own business; the friends of the law are well disposed but occupied with other affairs; and the task of enforcing the law against the thirst of the many is left to the few—to a police force of one hundred men, of whom perhaps a dozen are specially delegated to do this special work. The average citizen, in estimating the measure of success to be obtained, must in all fairness measure the size and strength of the opposing forces.

At the same time the task of detecting the baser sort of traffic—the so-called kitchen barrooms—is surrounded by so many physical difficulties and legal technicalities, and the changes of base of the traffickers are so frequent and rapid, that the exposure and detection of the traffic do not necessarily mean the arrest of the law-breakers. The frequent and easy communication between Lowell and the neighboring cities and towns where intoxicating liquors are sold will doubtless lure many of our citizens afield to assuage a thirst which appears to increase as the facilities at home decrease; and if the experiences of the last no-license year are to be repeated, we will find street railroad travel made disagreeable and dangerous after dark, and our local courts congested with drunkards made in Lawrence, Nashua and other towns. Amenities of this sort must be borne philosophically, even when the imported drunkenness is laid to the door of police

negligence and called home-made by good people, whose intentions are better than their knowledge and judgment.

A feature absent from our last experience of no-license is the "original package" traffic, which, under the present reading of the law, lies within the power of any person familiar with the customs regulations, and rich enough to import liquors from abroad and sell them in Lowell without a license. Since this department has not been able to secure a warrant for those engaged in this traffic, owing to uncertainties in the law and the indisposition of the court to act until the matter has been thoroughly examined into, it must be apparent to even the most superficial observer that the no-license law is not as effective a method of securing positive prohibition and ideal temperance conditions as many have imagined.

These peculiarities and idiosyncrasies of the law are spoken of here simply to advise your Honor and the public that while this department is earnestly endeavoring to accomplish all that is possible under the existing conditions, the results which many sincere and well meaning people expect are beyond our power to accomplish.

This Board takes this time and place to congratulate the city upon one fact of which it may be justly proud—the magnificent spirit of law and order which has prevailed in Lowell since the inauguration of the

industrial strike two months ago. With close on 20,000 people out of work, there has been no disorder, no law-breaking, a marked decrease in drunkenness, and none of those regrettable disturbances which have marked strikes in various parts of this state and other parts of the republic. In the month of April, 1902, there were 414 arrests for all offences, and of these 316 were for drunkenness; in April, this year, there were 340 arrests, of which 234 were for drunkenness. In May, 1902, out of 386 arrests 288 were for drunkenness, and during the May just closed, out of 196 arrests only 105 were for drunkenness.

It is neither the business nor the desire of this Board to criticise either party to the struggle, but it feels that the conduct of our people during this trying period ought to be a matter of just pride to every citizen of Lowell.

The adoption and installation of the Bertillon system of measurement and identification by the Lowell Police Department has brought it in touch with every police department of importance all over this country and Canada, and by a system of registration and exchange it is enabled to keep track of that class of criminals most dangerous to society. The system is supplemented by photographs and descriptive lists which render identification absolute. The system is in good working order and gives the liveliest satisfaction.



The system of exchanging lists of watches and other valuable property pledged and sold to pawnbrokers and dealers in old metals, which the Superintendent of Police of Lowell inaugurated and which is in operation between the various cities of this Commonwealth, has proved to be a valuable addition to the work of the Bureau of Criminal Investigation, and has resulted in the recovery of many valuable stolen articles and the apprehension and punishment of a number of criminals.

The increase in the business and demands of the Lowell Police Court and the growth in numbers of the police force had long outrun the accommodations of the police building in Market Street; and the absolute necessity for more office, barrack and storage room made the enlargement and rearrangement of the quarters there imperative. The matter having been laid before the City Council and they having personally investigated the premises, an appropriation was made to cover the necessary additions, alterations and improvements. A great deal of work was done by the department of Public Buildings, and when the alterations are completed the accommodations in the building should take care of the natural expansion of Court and Department for some years to come.

The building was broken out in the rear and extended out some thirty feet from the basement floor to the third story. The offices of the Court were enlarged and rearranged so as to make them airy,

spacious and well lighted, and to afford the privacy which such business demands and which could not be secured in the old offices. Over these offices storage rooms for important papers, documents and records were arranged. The basement floor was fitted up with lavatories and additional lockers for the officers, those lockers which had hitherto crowded the barrack floor being removed. On the ground floor the addition was fitted up with rooms for the matron, an operating room for the City Physician to treat emergency cases and two rooms for the insane, temporarily detained for examination and surveillance before being removed to the state insane hospitals. The insane detention rooms were arranged from suggestions supplied by the Middlesex North Medical Society, which body had for years requested that some such quarters should be added to the equipment of the department in the interests of common decency and humanity. Hitherto insane people placed in the care of the department, pending examination and removal, had to be lodged in the ordinary prison cells in close contiguity to criminals and drunkards; and it will be a source of satisfaction to know that all this will be changed at an early date, when the work will be finally completed. The City Council has just appropriated money to close up the work already so far advanced and to place the offices of this Board in proper condition.

The work of changing over the Lowell police signal telegraph boxes has been pushed along and is nearly completed. Whenever the wires of the telegraph system are underground the boxes are placed in a neat case surmounting a stand-post; and as the underground system is extended, the boxes are removed from poles and houses and placed in these cases and stand-posts, which have the merit of occupying very little room and of being rather sightly.

The details of the work of the department, the record of arrests and their distribution according to offences, sex, nationality, trade and vocation, the roll of honor and necrology of the year, are appended hereto for the information of the Mayor.

Respectfully submitted.

FRANK B. DOW,

HARRY R. RICE.

FISHER H. PEARSON.

*Board of Police.*

## ROLL OF HONOR.

A ROLL OF PATROLMEN OF THE LOWELL POLICE FORCE COMMENDED DURING THE YEAR FOR CONDUCT DEEMED WORTHY OF MENTION (SPECIAL IN GENERAL ORDERS.)

NAME	RANK	ORDER	DATE	REASON
Crowley, John J. ....	Patrolman ....	No. 36....	August 15, 1902. ....	Arrest of Michael Connors, wanted in Lawrence, from description .....
Connors, Martin. ....	Sergeant. ....	No. 37....	August 27, 1902 .....	Arrest of Michael Quinn, a burglar who broke into a house on Market Street, and stole \$105.....
Sparks, John F. ....	Patrolman. ....	No. 38....	November 15, 1902.....	Quick arrest of J. H. Welch, thief, and John C. Johnson, horse thief. ....
Murphy, Philip D. ....	Patrolman. ....	No. 39....	November 24, 1902.....	Prompt arrest of Joseph Daigle, a notorious thief and house-breaker, from description furnished.....
Flannigan, Edward F. ....	Patrolman. ....	No. 40...	March 3, 1903.....	Courage and activity in saving life and property at the fire in the Burbank block, Prescott Street, on the morning of February 27, 1903.....
Kew, William R. ....	Captain. ....	No. 41...	March 30, 1903. ....	Arrest of two dangerous incendiaries, Frank H. Curran and James Jones, who attempted to burn the Hill block, Middlesex Street.....
Kane, Bartholomew. ....	Patrolman. ....			
Brown, George H. ....	Patrolman. ....			
Wilson, William H. ....	Patrolman. ....			

## NECROLOGY FOR 1902-3.

NAME	RANK	BIRTHPLACE	DATE	APPOINTED ON FORCE	DEATH, ETC.
Jones, William B. ....	Patrolman...	St. Lawrence, N. Y. . .	November 22, 1831..	October 23, 1877....	May 9, 1903, at Lowell.....
Blood, Josiah S. ....	Patrolman...	Whitefield, N. H. ....	January 3, 1842 ....	May 23, 1882.....	July 4, 1902, at Lowell.....
Libby, Isaac.....	Patrolman...	Hartford, Me. ....	September 12, 1827	May, 1864.....	Retired and pensioned on January 1, 1900, and died March 21, 1903.....
Sullivan, John J. ....	Patrolman...	Ireland.....	June, 1875.....	March 19, 1901.....	May 28, 1903.....

## DISTRIBUTION OF ARRESTS ACCORDING TO OFFENCES IN 1902-3.

## OFFENCES AGAINST PUBLIC ORDER, 1902-1903.

OFFENCES.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Adultery.....					1			4		5			10
Bastardy.....	1	1	1	1					1		3	4	15
City ordinances, violating.....	9	1	10		1	1	2	1			5	2	31
Children, neglected.....	9		3	4	1	7	3			6			35
Capias, etc.....	10	3	1	1	1	3		2	4	1	2	2	30
Disorderly house.....	1		1		1								3
Disturbing peace.....				2	2	5	3	1	2			1	16
Dogs, unlicensed.....					1								1
Drunkenness.....	377	336	527	433	385	358	272	267	243	357	234	105	3894
Escaped prisoners.....		1		2	1	1	2		1	3		3	14
Forgery.....		1						1				1	3
Fornication.....	2	2		4	4			2	2	1	2		19
Food laws, violating.....		10				17			1				28
Gambling.....	2		11	7		20		6		7	17	3	73
Idle and disorderly.....		2											2
Indecent exposure.....		1	1						1	1			4
Insanity.....	2	3	3	1	2	2	2	6	3	2	1	2	29
Lewdness.....	1	2				2		1					6
Liquor laws, violating.....		2		7		1					1	15	26
Lord's Day, violating.....						4							4
Peddling, unlicensed.....		1		1						1			3
Polygamy.....					1				1				2
Profanity.....		1	2		1						1		5
Stubbornness.....		3	3	3	4	1	3	2	2	2		1	24
Suspicious persons.....	39	31	33	17	8	10	2	10	15	14	21	17	217
Safe keeping.....	1	4	1		1		1					3	11
Truancy.....	4				6	6	2	10	5	7	2	5	47
Vagrants.....	1	4	3	2		1		1	1	2	1		16
Neglect of family.....	2	5	2	3	3	5	4	8	2	5	4	1	44
Miscellaneous.....		1		2		5	1	3	4		4	1	21
Totals.....	461	415	602	490	424	449	298	325	288	415	300	166	4633

## REPORT OF BOARD OF POLICE.

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## DISTRIBUTION OF OFFENCES IN THE YEAR 1902-1903.

## OFFENCES AGAINST THE PERSON.

OFFENCES.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Act, unnatural.....					1								1
Assault.....	21	27	18	21	35	14	18	12	14	16	14	7	217
Assault, felonious.....						1	1	1	2	1	1	1	9
Abduction.....			1										1
Libel, criminal.....									1				1
Manslaughter.....							1						1
Rape.....			2					1	1		1		5
Rape, attempt.....							1						1
Robbery.....		3				4							7
Threats.....	1	3	1		2		3						10
Suspicion of murder.....	1												1
Totals.....	24	33	22	21	38	19	24	14	18	17	16	8	254

## OFFENCES AGAINST PROPERTY.

OFFENCES.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Arson.....								2	1	1			4
Breaking and entering.....	5	5	3	3	2	1	6	2	7				42
Embezzlement.....		1						5	2				8
Evading fare.....				3									3
Fraud.....				1		1				1			3
Larceny.....	24	32	25	28	25	27	26	17	13	24	25	18	284
Malicious mischief.....	2	1	5			2	1	10		2	1		24
Receiving stolen goods.....	1		1			1			3	1	1	1	9
Removing baggage.....	2	1		1	1	1	3	1		1			11
Selling mortgaged property.....	1	1	1		2	1	1	1		1	1	1	11
Suspicion, breaking and entering..			1	1	1				1				3
Suspicion, larceny.....		4	2	3	2		2		4	4	1	2	24
Trespass.....		17	2	2						1			22
Unlawful taking.....			1	1	2	3	2				1		10
Miscellaneous.....								5		3			8
Totals.....	35	62	41	42	35	37	41	43	31	39	34	26	466



## DISTRIBUTION OF OFFENCES ACCORDING TO SEX AND NATIONALITY.

ITEMS.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Men.....	395	399	497	435	374	397	274	285	249	360	255	145	4065
Women.....	65	59	98	74	65	54	49	52	51	57	46	22	692
Minors.....	52	42	55	30	39	38	24	33	32	39	39	29	452
Non-residents.....	148	149	206	189	161	140	117	107	94	129	94	56	1590
United States.....	267	223	296	248	228	229	167	183	165	206	154	103	2469
England.....	32	45	37	44	34	34	38	32	21	49	17	13	396
Ireland.....	115	100	138	124	116	94	55	61	63	85	62	31	1044
Scotland.....	11	10	14	11	13	8	9	9	5	13	7	2	112
British Empire.....	63	71	99	68	64	84	65	46	48	70	49	35	762
France.....	1	2	1	1	2	1		3	1			3	15
Germany.....	2	1	3	2	1	2	1	3	3		6		24
Italy.....	1		1	3	2	1		1		3			12
Russia and Greece.....	17	38	38	21	10	20	11	28	13	24	24	3	247
Turkish Empire.....	1	3	2	15	1			3	6	2	2	6	41
Scandinavia.....	1	4	6	1	4	7		1	3	3	2		32
Miscellaneous.....	1	3	15	1	3	9	1		4	1	17		55
Totals.....	512	500	650	539	478	489	347	370	332	456	340	196	5209

## DISTRIBUTION OF OFFENCES ACCORDING TO TRADES AND VOCATIONS.

Building Trades.....	43	30	42	40	41	37	38	24	16	28	20	6	365
Mechanical Trades.....	40	26	45	48	34	35	26	32	27	37	33	14	397
Mill and Factory.....	180	191	256	191	144	163	120	146	109	167	105	55	1827
Shops and Stores.....	18	20	29	19	24	50	16	10	19	17	31	22	275
Professional.....	3	1		4	4	1		1	5	1	4	2	26
Agricultural.....	9	10	6	10	8	11	6		7	6	5	2	80
Clothing and Garb.....	8	15	18	17	17	15	15	8	8	9	8	8	146
Agents, etc.....	4	7	8	5	5	11	8	10	8	9	3	3	81
Laborers.....	150	144	164	153	140	110	79	70	85	111	81	38	1325
Domestic service.....	29	23	38	28	27	24	21	14	25	24	30	21	304
Railroad and Transportation.....	11	17	21	14	12	19	8	28	11	19	8	11	179
Children.....	10	7	11	7	16	13	8	24	9	24	7	14	150
Miscellaneous.....	7	9	12	3	6		2	3	3	4	5		54
Totals.....	512	500	650	539	478	489	347	370	332	456	340	196	5209

## REPORT OF THE KEEPER OF LOCK-UP.

ITEMS	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals
Lodgers, total number....	1	4	2	2	6	1	11	5	9	7	5	2	55
“ native.....	1	1	1	2	3	1	8	2	5	4	3	1	32
“ foreign.....		3	1		3		3	3	4	3	2	1	23
“ minor.....		1			4	1	2	3	4	2		1	18
“ male.....		4	1	2	5		11	3	8	6	5	2	47
“ female.....	1		1		1			2	1	1			7
“ non-residents.....	1	4	2	2	5		11		7	7	5	2	46
Money of prisoners .....	\$913.05	\$436.20	\$1060.48	\$1343.03	\$610.46	\$749.10	\$594.90	\$656.87	\$412.01	\$620.72	\$406.44	\$441.49	\$8244.75

## REPORT OF PATROLMEN.

Persons arrested.....	178	289	419	383	327	320	216	267	238	331	197	105	3300
Drunks assisted home.....	36	21	15	23	17	18	23	39	11	15	22	4	244
Violation liquor law.....			1	1	2	1	4	1	1		1	6	17
Buildings found open.....	113	69	103	115	130	100	92	101	95	82	102	80	1182
Defective streets, etc.....	20	14	40	34	22	10	11	2	9	51	47	15	275
Fire alarms given.....	2		1	3	2		2	1			2	2	14
Lost children restored.....	3	9	9	8	5	5	3	6	6	4	8	1	67
Prop'ty stolen & recovered	\$159.00	\$15.00	\$11.50	\$37.00	\$50.15	\$75.00	\$19.00	\$66.98	\$76.85	\$8.00	\$204.50		\$722.98
Gas lights out.....	7		6	15	16	12	12	28	18	20	11	4	149
Electric lights out.....	122	117	72	82	148	186	156	280	107	62	57	13	1402
Teams put up.....	1	8	5	3	6	3	1	4	2	3	2	2	40
Obstructions not lighted.....	19	1	13	12	20	9	11	8	7	7	9	5	128
Obstructions removed.....	6	1	2	1	4	3	2	4	2	4	3	3	34
Disturbances quelled.....	35	34	40	37	38	42	31	51	42	43	42	12	447



## REPORT OF BOARD OF POLICE.

## MONTHLY REPORTS OF THE MATRON.

OFFENCES, ETC.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals
Adultery.....		1	3	1	1	1	3	2	1	2	3	3	5
Assault and Battery.....								1		1			17
Arson.....	1			1				2		1			2
Capias, etc.....				2				1					4
Common brawler.....								2					2
Concealing mort. property.....	69	51	88	64	60	1	41	37	49	53	40	20	620
Drunkenness.....	1		2	3	3	48	1	1	1	1	1		13
Fornication.....													1
Food laws, violating.....													1
Gambling.....		1											1
Idle and disorderly.....			1					3	1				1
Insane.....	2	3	5	3		3	3	3	3	3	7	2	5
Larceny.....		1				1							37
Lewdness.....		1											2
Liquor laws, violating.....		1		1			3					2	4
Neglected children.....													3
Peddling, unlicensed.....		1											1
Suspicious persons.....	1				1						1		3
Safe keeping.....		2			1		2	1	1			1	5
Stubbornness.....		1	1		2			2	3				11
Vagrant.....													1
Malicious mischief.....										1			1
Total of arrests.....	74	62	100	75	68	54	53	52	59	62	53	28	740
Amount of money taken from prisoners.....	\$35.31	\$ 4.72	\$17.93	\$31.29	\$37.58	\$19.54	\$2.33	\$10.67	\$25.35	\$20.93	\$14.01	\$12.90	\$232.56

## MONTHLY REPORT OF THE WORK OF THE PATROL WAGON SERVICE.

ITEMS.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	Totals.
Number of Telephone Calls for Wagon.....	330	342	442	354	329	298	222	228	213	312	204	112	3,384
Number of Prisoners Arrested by Wagon.....	395	407	555	420	387	358	257	268	243	342	265	135	4,032

## MONTHLY REPORT OF POLICE TELEGRAPH SIGNAL SERVICE.

Months	Number of Duty Calls	Number of Telephone Calls	Number of Wagon Calls	Number of Prisoners	Number of Miles Traveled
June.....	36,421	2,977	329	392	340
July.....	38,381	3,308	342	395	369
August.....	36,709	3,035	449	561	455
September.....	38,171	2,978	356	416	364
October.....	40,587	3,185	326	383	340
November.....	38,262	3,134	297	356	312
December.....	40,241	3,214	220	260	209
January.....	40,999	3,054	227	275	224
February.....	35,143	2,388	212	244	226
March.....	39,831	2,812	309	366	330
April.....	38,774	2,688	204	258	236
May.....	39,084	3,008	111	127	131
Totals.....	461,703	35,781	3,382	4,033	3,536

## REPORT OF THE BUREAU OF CRIMINAL INVESTIGATION.

Property Record	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Totals
Amount lost and stolen recovered.....	\$691.40	\$1338.25	\$976.00	\$1539.00	\$986.60	\$942.55	\$777.20	\$498.25	\$815.80	\$716.85	\$1883.30	\$401.95	11567.15
“ unrecovered.....	302.00	514.75	668.00	651.00	374.50	435.50	394.25	342.25	762.80	519.50	766.30	201.50	5932.35
“ unrecovered.....	389.40	823.50	308.00	888.00	612.10	507.05	382.95	156.00	53.00	197.35	1117.00	200.45	5634.80
CAUSES OF ARREST													
Assault and Battery.....	12	2	1	2	8	4		3	5	2	3	1	43
“ Felonious.....			1				4	1	2				4
Breaking and Entering.....	1		1	1			1	1	1	1	1	2	11
Bastardy.....							1	1					3
City ordinance, violating							2		1				4
Drunkenness.....	5	4	6	5	4	11	6	8	2	9	2	1	63
Embezzlement.....	7	11	11	7	18	16	12	2	1	14			4
Larceny.....	2	1		3	3	1		18	6	1	13	7	140
“ from the person													3
Lewdness, etc.....			1				1	1					5
Manslaughter.....							1			2			1
Mort. prop'ty, concealing			1		1*	2	1						3
Receiving stolen goods..			1		1		1						3
Robbery.....	1				1								2
Rape.....					1		4	1					
Miscellaneous.....	2	6	1	7	1	2		4	9	5		2	43
Cases investigated with-													
out arrest.....	30	34	19	27	18	40	30	25	20	24	24	17	308
Search warrants served.		1		2		2		1			4	2	12
Total of arrests.....	30	25	23	25	37	37	32	40	29	34	19	13	344

## NAMES AND RESIDENCES OF MEMBERS OF THE LOWELL POLICE DEPARTMENT.

Name	Rank	Residence
Moffatt, William B.....	Superintendent.....	35 London street
Welch, Redmond.....	Dep. Superintendent..	42 North Street
Kew, William R.....	Captain.....	17 Princeton Street
Burns, Michael J.....	Electrician.....	24 Fulton street
Brosnan, James.....	Lieutenant.....	194 Perry street
Donaldson, David J.....	Lieutenant.....	204 Wentworth avenue
Downey, Hugh.....	Lieutenant.....	183 Pleasant street
Webster, James E.....	Lieutenant.....	273 Westford street
Goodwin, Frank.....	Inspector.....	17 Coral street
Laffamme, Charles.....	Inspector.....	784 Moody street
Maher, Martin A.....	Inspector.....	92 Twelfth street
McDonald, Michael E.....	Inspector.....	368 Merrimack street
Walsh, John A.....	Inspector.....	145 Mammoth road
Connors, Martin.....	Sergeant.....	282 Concord street
Crowley, John B.....	Sergeant.....	112 Walker street
Freeman, John.....	Sergeant.....	491 Gorham street
Abbott, George S.....	Patrolman.....	807 Moody street
Atkinson, Thomas R.....	Patrolman.....	214 Loring street
Bigelow, Samuel J.....	Patrolman.....	960 Middlesex street
Boyle, James.....	Patrolman.....	38 May street
Breault, Eloi N.....	Patrolman.....	7 Dracut street
Brown, George H.....	Patrolman.....	15 Hurd street (Y. M. C. A.)
Buchanan, John.....	Patrolman.....	106 Beech street
Bumps, William G.....	Patrolman.....	256 Gibson street
Burke, James E.....	Patrolman.....	30 Abbott street
Burnett, William C.....	Patrolman.....	45 Tolman avenue
Castles, Stephen J.....	Patrolman.....	24 Schafer street
Cawley, Peter.....	Patrolman.....	872 Bridge street
Charron, George A.....	Patrolman.....	100 Aiken street
Clancy, Michael J.....	Patrolman.....	10 Mill street
Clement, Horace W.....	Patrolman.....	26 Eighteenth street
Cogger, Daniel W.....	Patrolman.....	834 Moody street
Coleman, Thomas F.....	Patrolman.....	736 Central street
Conway, John E.....	Patrolman.....	16 Linden street
Counihan, Michael J.....	Patrolman.....	294 Riverside street
Corcoran, Peter T.....	Patrolman.....	336 High street
Creahin, John.....	Patrolman.....	441 Pine street
Creamer, Ambrose M.....	Patrolman.....	56 Read street
Crowley, John J.....	Patrolman.....	107 Blossom street
Curran, Peter.....	Patrolman.....	226 Fletcher street
Deering, Henry E.....	Patrolman.....	80 Beech street
Dennett, John S.....	Patrolman.....	55 Read street
Donovan, Daniel C.....	Patrolman.....	42 Claire street
Donovan, John J.....	Patrolman.....	42 Claire street
Dooley, Jeremiah J.....	Patrolman.....	72 Chestnut street
Duncan, Alexander.....	Patrolman.....	1022 Central Street
Dwyer, James J.....	Patrolman.....	144 High street
Dwyer, Philip.....	Patrolman.....	65 Chestnut street
Dwyer, Timothy J.....	Patrolman.....	186 Perry street
Ealy, Frank B.....	Patrolman.....	89 Foster street
Farris, Henry C.....	Patrolman.....	847 Lawrence street
Fitzgerald, Thomas H.....	Patrolman.....	201 Manchester street
Flanagan, Edward F.....	Patrolman.....	182 Pleasant street
Fox, Edward.....	Patrolman.....	8 Eddy street
Fox, Frank.....	Patrolman.....	20 Chambers street
Fox, John W.....	Patrolman.....	598 Bridge street
Frawley, Patrick J.....	Patrolman.....	31 Madison street
Ganley, John J.....	Patrolman.....	81 Boynton street
Giroux, William.....	Patrolman.....	18 Orford street
Grady, William H.....	Patrolman.....	39 Lundberg street
Gregg, Charles.....	Patrolman.....	96 Fort Hill ave

NAMES AND RESIDENCES OF MEMBERS OF THE LOWELL POLICE  
DEPARTMENT—Continued.

Name	Rank	Residence
Grinnell, Enoch N.	Patrolman	110 Appleton street
Hamilton, Charles A.	Patrolman	11 Sixth street
Healey, John F.	Patrolman	3 Coburn place
Hersey, Charles H.	Patrolman	4 Fernald street
Hessian, Thomas H.	Patrolman	30 Chippewa street
Hickson, John	Patrolman	60 Mammoth road
Hill, Charles S.	Patrolman	10 Stackpole street
Hill, Edward E.	Patrolman	308 High street
Hogan, David II.	Patrolman	82 Varney street
Holland, James E.	Patrolman	34 Second avenue
Holman, Alfred M.	Patrolman	126 Powell street
Howard, Cornelius	Patrolman	79 Andrews street
Hurley, James F.	Patrolman	778 Moody street
Ingalls, Lindsey E.	Patrolman	147 Coburn street
Jones, William B.	Patrolman	221 Branch street
Kane, Bartholomew	Patrolman	20 Mill street
Kennedy, James J.	Patrolman	101 Pleasant street
Kiernan, Michael	Patrolman	39 State street
Killoy, William H.	Patrolman	208 Cumberland road
Lamoureux, Joseph L.	Patrolman	756 Moody street
Lane, Daniel W.	Patrolman	16 Smith avenue
Leighton, John L.	Patrolman	78 South Loring street
Lennon, Michael J.	Patrolman	10 Pleasant street
Libby, Albert E.	Patrolman	61 Eighteenth street
Linane, John J.	Patrolman	46 Blossom street
Lynch, Jeremiah	Patrolman	79 Andrews street
Mackenzie, John R.	Patrolman	493 Westford street
Maguire, Hugh	Patrolman	349 Concord street
Markham, James	Patrolman	12 Burns street
Marshall, Frank K.	Patrolman	78 Warwick street
Marshall, George W.	Patrolman	485 Parker street
McCann, Matthew J.	Patrolman	184 Pleasant street
McCloughry, Alexander	Patrolman	Varum block, Sixth street
McCloughry, Thomas	Patrolman	670 Bridge street
McCloughry, William	Patrolman	20 Orford street
McIntee, Cormack	Patrolman	37 Hampshire street
McKay, John H.	Patrolman	130 Bartlett street
McNabb, James	Patrolman	63 Dunfey street
McQuade, James A.	Patrolman	227 Concord street
Moloney, Thomas A.	Patrolman	44 Whipple street
Moore, Francis E.	Patrolman	545 Middlesex street
Mulry, John J.	Patrolman	8 Crane avenue
Murphy, Anthony	Patrolman	255 Concord street
Murphy, Daniel J.	Patrolman	56 Hudson street
Murphy, Philip D.	Patrolman	491 Lawrence street
Nichols, Ezra A.	Patrolman	222 High street
Noye, Jose V M.	Patrolman	415 Westford street
O'Brien, William H.	Patrolman	13 June street
O'Connell, John	Patrolman	61 Church street
O'Connell, Michael	Patrolman	53 Floyd street
O'Keefe, Cornelius T.	Patrolman	42 Blossom street
Page, Alonzo J.	Patrolman	410 Westford street
Palmer, George B.	Patrolman	23 Eighteenth street
Perkins, Everett E.	Patrolman	27 Kirk street
Prempas, John H.	Patrolman	136 Suffolk street
Provencher, Napoleon	Patrolman	17 Fourth avenue
Quinn, Henry F.	Patrolman	45 Durant street
Reilly, James	Patrolman	150 Pleasant street
Riley, Thomas B.	Patrolman	21 Irving street
Ryan, Bartholomew	Patrolman	42 Sydney street
Ryder, Chester E.	Patrolman	855 Lawrence street

NAMES AND RESIDENCES OF MEMBERS OF THE LOWELL POLICE  
DEPARTMENT—Continued.

Name	Rank	Residence
Sanborn Thomas J.....	Patrolman.....	126 Grove street
Somers, Henry E.....	Patrolman.....	126 Mammoth road
Sparks, John F.....	Patrolman.....	503 Beacon street
Sullivan, John J.....	Patrolman.....	211 Fletcher street
Swan, Edward T.....	Patrolman.....	153 B street
Tansey, Owen J.....	Patrolman.....	40 Sydney street
Tilton, Herman N.....	Patrolman.....	57 South Walker street
Tilton, John W.....	Patrolman.....	12 Whipple street
Welch, John N.....	Patrolman.....	491 Lawrence street
Whelan, John T.....	Patrolman.....	37 State street
Whitney, Frank H.....	Patrolman.....	108 D street
Whittaker, John T.....	Patrolman.....	220 Thorn-like street
Whitworth James H.....	Patrolman.....	5 Billerica street
Wilson, William H.....	Patrolman.....	17 Harrison street
Howard, James H.....	Operator.....	19 Ellsworth street
Davis, Fred L.....	Patrol Driver.....	188 Worthen street
Kilburn, James W.....	Patrol Driver.....	92 Shaw street
Crowell, Albert.....	Patrol Driver.....	378 Rogers street
Maguire, John E.....	Messenger.....	240 Thorndike street
Gannon, Edward H.....	Hostler.....	243 High street
Vining, Emma V.....	Stenographer.....	36 Fourth avenue
Wallace, Margaret.....	Matron.....	Police Station
Bourbeau, David.....	Charman.....	34 Ford street





ANNUAL REPORT  
OF THE  
TRUSTEES  
OF THE  
CITY LIBRARY  
OF LOWELL,  
FOR THE YEAR 1902.



LOWELL, MASS. :  
BUTTERFIELD PRINTING COMPANY,  
1903.





# Administration of the City Library, 1902.

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## BOARD OF TRUSTEES.

HON. WILLIAM E. BADGER, Mayor of the City.  
HON. GEORGE F. RICHARDSON, D. A. SULLIVAN,  
FRANK P. PUTNAM, THOMAS WALSH,  
ROWENA PALMER.

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## LIBRARIAN.

FREDERICK A. CHASE.

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## ASSISTANT LIBRARIAN.

HARRIET F. HILL.

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## ASSISTANTS.

WALTER H. GILMAN,	HARRY C. BOWEN,
CLARA BEARD,	BERTHA G. KYLE,
ALICE H. KIDDER,	ALICE M. MYERS,
GEORGE F. O'DWYER,	CARL LEIGHTON.

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## SUPERINTENDENT OF READING ROOM.

STEPHEN T. WYMAN.

# REPORT OF THE TRUSTEES.

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LOWELL, MASS., Dec. 31, 1902.

*To the City Council of the City of Lowell:*

The Trustees of the City Library of Lowell respectfully submit the following report for the year 1902:

## FINANCIAL STATEMENT.

### RECEIPTS.

Balance from previous year.....	\$	3 66
Appropriation by City Council.....		16,000 00
Interest on deposit .....		107 00
Fines.....		396 50
Other sources.....		3 50
	\$	<u>16,510 66</u>

### EXPENDITURES.

Salaries .....	\$	8945 10
Bindery.....		805 25
Lights .....		1568 16
Books .....		3148 57
Periodicals .....		799 77
Sundries .....		1183 56
Balance.....		60 25
	\$	<u>16,510 66</u>

## Condition of the Library.

---

Volumes purchased.....	2,221
Volumes added by gift :	
From private library of John Davis, Esq....303 }	
From other donors .....181 }	484
Volumes added by binding periodicals.....	475
Worn-out books replaced .....	215
Duplicates purchased.....	574
Duplicates, gifts .....	35
Total number of volumes added.....	1819
Total number of volumes in the library .....	64,509
Volumes lost and not paid for.....	24
Estimated value of the same .....	\$20 52
Periodicals and papers subscribed for.....	217
Periodicals and papers given.....	31
Number of volumes used, home and reference .....	143,163
Number of volumes consulted in Reference Room....	15,334
Number of post cards sent to delinquents during the year	4,267
Applicants received during the year.....	2,269
Applicants who did not call for cards.....	70
Names registered during the year.....	2,199
Number of names registered Dec. 31, 1901 .....	21,933
Total registered to date, Dec. 31, 1902.....	24,132
Library open 305 days.....	
Total circulation .....	143,163
Average daily circulation .....	469
Largest monthly circulation (March) .....	15,034
Smallest monthly circulation (August).....	9,516
Largest daily circulation (March 1).....	1,104
Smallest daily circulation (Feb. 17).....	142
Percentage of fiction read.....	70.7
Percentage of other classes ..	29.3

## List of Donors to the Library.

1902

NAMES	Volumes	Pamphlets
Anderson, Miss Anna F .....	2	
Brown, Miss Marion F .....	1	
Brown, Mrs. Willard A .....	37	
Burbank, Mrs. Charles A .....	32	
Canada, Royal Society of .....	1	
Connecticut, State of .....	1	
Corticelli Silk Mills ....	1	
Cust, R. N .....	1	
Davis, John, private library of .....	338	
Dows, Azro M. ....	30	
Greene, Rev. John M., D. D. ....	1	
Harvard University .....	2	
Hervey, E. W. ....	1	
Hobbs, Franklin W .....	1	
Hyde, James H. ....	1	
Lawson, Thomas W. ....	1	
Leffingwell, Albert, M. D. ....	1	
Lincoln, Mrs. Varnum .....		3
Lowell, City of .....	4	
Lowell, City of, Water Board .....	21	
Lubin, D. ....	1	
<i>Carried forward</i> .....	478	3

NAMES	Volumes	Pamphlets
<i>Brought forward</i> .....	478	3
Manchester, Rev. L. C., D. D.....	21	
New Jersey, State of.....	1	
New York, State of.....	2	
Olin, Hon. Wm. M.....	31	2
Paine, Hon. Robert Treat.....	1	
Preston, James F.....	8	
Putnam, Mrs. Addison Jr.....	2	
Roy, J. H.....	1	
Smyth, G. H.....	1	
Sylvester, W. A.....	1	
United States : Civil Service Commission.....	1	
Department of Interior.....	1	3
Department of Labor.....	1	1
Department of State.....	2	
Library of Congress.....	2	
Smithsonian Institution.....	3	5
Supt. of Public Documents.....	172	252
Watson, B. F.....	1	
Wentworth, Mrs. Tappan, Estate of.....	6	
Wood, Mrs. Horatio.....	56	
Worcester Board of Trade.....	1	
Worthley, Daniel E.....		1
Total....	793	267

Anderson, Miss Anna F..... Miscellaneous newspapers  
Ludlam, Mrs. Joseph S..... 1 portfolio  
Millet, J. B. Co..... 1 portfolio



ANNUAL REPORT

OF THE

CITY SOLICITOR

FOR YEAR ENDING

1902—'03.



LOWELL, MASS :  
UNION PRINTING CO., 67 MIDDLE ST.  
1903,





# REPORT.

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OFFICE OF CITY SOLICITOR,

Lowell, Mass., Feb. 28, 1903.

*Gentlemen of the City Council:*

I respectfully submit the following annual report of the law department for the year 1902, and the months of January and February, 1903.

## LITIGATION.

3564.      *Town of Maynard vs. City of Lowell.*

This is an action of contract brought by the plaintiff in the Superior Court to recover the sum of \$552.79, alleged to be due the plaintiff for necessities furnished for the relief and comfort

of Perry Collins, his wife and minor children, under the Poor laws. The writ was dated March 27, 1902, and was returned to the Superior Court the first Monday of May, 1902. Defendant demurred to the declaration and also filed an answer setting up the statute of limitations. The case was marked for hearing on the demurrer at the October sitting in 1902, at Cambridge, when the plaintiff filed an amended declaration, and the case was continued. As many if not all of the items in plaintiff's declaration were delivered more than two years before the action was brought, it is difficult to see how this action can be maintained.

*4202. William McBride vs. William B. Moffatt  
and Martin Connors. (Police Officers.)*

This was an action of tort brought by the plaintiff by trustee process against certain police officers of Lowell for assault and battery and false imprisonment. The writ was dated August 27, 1902, and was returnable to the Superior Court on the first Monday of October, 1902. In accordance with the practise which has heretofore prevailed in this department, I appeared for the defendants, although it does not seem to me that such cases fairly come within the scope of the

duties of a city solicitor. Defendants filed a motion to dismiss the action on the ground that under the statutes of this Commonwealth such an action cannot be brought by trustee process, and on February 11, 1903, defendants' motion was allowed and the action dismissed.

*William J. Meloy vs. City of Lowell.*

This is an action of contract brought by the plaintiff in the Superior Court to recover certain sums of money alleged to be due to the plaintiff for services and sundry expenses. The writ is dated June 17, 1902, and was returnable to the Superior Court on the first Monday of August, 1902. The action was not entered in court.

3993.

*Maria Corriea vs. City of Lowell.*

This is an action of tort brought by the plaintiff in the Superior Court to recover the sum of \$1000 for alleged damages to her building, situated at 33 Emery Street, caused by the diversion of surface water from Parker Street upon the property of the plaintiff. The writ is dated July 31, 1902, and was returnable to the Superior Court the first Monday of August, 1902. As the

writ in this case was not served on the defendant thirty days before the entry day, defendant filed a motion to dismiss the action, which motion is still pending.

3866

*Margaret Cahill vs. City of Lowell.*

This was an action of tort for personal injuries alleged to have been received by the plaintiff October 21, 1901, by reason of a defect in the sidewalk on the southerly side of Union Street, opposite the premises of No. 86 on said street. An investigation showed that the defect complained of existed and the liability of the city seemed reasonably certain. The injuries were quite severe. Settlement was made by the payment of \$125.

*John McLaughlin vs. City of Lowell.*

This is an action of tort for personal injuries alleged to have been received by the plaintiff July 16, 1902, by reason of an alleged defect in the sidewalk on the southerly side of Lakeview Avenue, nearly opposite the store of John Burke, situated on the northerly side of said avenue. The writ is dated November 18, 1902, and was returned to the Superior Court the first Monday of January, 1903.

4271. *Jeremiah Reardon vs. City of Lowell.*

This is an action of tort for personal injuries. alleged to have been received by the plaintiff July 19, 1902. The cause of the accident is alleged to be an uncovered and unguarded opening in the sidewalk, about opposite No. 303 Middlesex Street. The writ is dated September 12, 1902, and was returnable to the Superior Court the first Monday of November, 1902.

4664. *Margaret V. Connors vs. City of Lowell.*

This is an action to recover, under the statute, certain sums of money paid to the city treasurer for tax titles which are alleged to be defective by reason of errors, omissions and informalities in the assessment and sale of the land. The writ is dated November 19, 1902, and was returned to the Superior Court the first Monday of January, 1903. An answer has been filed and the case is pending.

*Edward F. Connors, et al vs. City of Lowell.*

This is an action of contract brought by the plaintiff in the police court of Lowell to recover for the use of certain articles alleged to have

been loaned to the street department by the plaintiffs and not returned. The writ is dated the 19th day of November, 1902, and was returned to the police court the first Saturday of January, 1903. An answer was filed and the case is pending.

4035.      *Amadee Archambeault vs. City of Lowell*

This is an action of tort for alleged injuries to the plaintiff's horse by reason of a defect and want of repair in Merrimack Street, at the junction of the tracks of the Boston & Northern Street Railway Company and the tracks of the Boston & Maine Railroad, nearly in front of the Boston & Maine Railroad Station on Merrimack Street. The writ is dated July 14, 1902, and was returned to the Superior Court on the first Monday of September, 1902. In this case it is contended by the defendant that if any defect existed in the street it was due to the negligence either of the Boston & Maine Railroad Company or of the Boston & Northern Street Railway Company. These corporations have each been notified to come into court and defend the action. An answer making a general denial of the allegation in the writ and declaration have been filed and the case is pending.

500. *Edward F. Connors, et al vs. City of Lowell.*

This was an action of contract brought by the plaintiffs in the police court of Lowell to recover the sum of \$840.49 alleged to be due them for the use of watering cart, for four loads of brick furnished by the plaintiff to the city, and for the use of a derrick hired from the plaintiff. The writ was dated November, 1901, and entered in court the first Saturday of December, 1901. Trial was had on January 7, 1902, which resulted in a judgment for the plaintiff for \$548.54 damages and \$13.32 costs, which judgment was paid by the city.

1988. *John Keefe vs. City of Lowell.*

This was an action of tort for personal injuries alleged to have been received by the plaintiff while in the employ of the city of Lowell in the excavation of the Willard Street sewer, so called, on or about February 9, 1900, by an accidental explosion of dualin. The writ was dated December 13, 1900, and was returnable to court on the first Monday of February, 1902. A trial was had before the jury at the March sitting of said court, which resulted in a verdict for the plaintiff for \$912.13 damage, and \$68.23 costs, which judgment has been paid and satisfied.



931. *John S. Stratton et al vs. City of Lowell.*

This was a petition in equity by ten taxable inhabitants of the city of Lowell under St. 1898, Ch. 490, for an injunction to restrain the Board of Health from making a contract for the Smith Improved Garbage Cremator under an order of the City Council appropriating money therefor on the ground that such order was not legally adopted. The petition was filed November 11, 1901. On December 18 a decree was rendered in favor of the plaintiffs and the case was reported for the determination of the Supreme Judicial Court. The case was argued in May, 1902, and by the decision of the last-named court the decree of the lower court was reversed and the bill dismissed.

4973. *Horace B. Coburn et al vs. City of Lowell.*

This was a petition to the Superior Court for a jury to assess damages for land taken and injury to the plaintiff's remaining land by the decree of the County Commissioners, in the widening of Andover Street. The petition was filed January 17, 1899, and order of notice issued thereon, returnable the first Monday of March, 1899. The case was referred to Harvey M.

Shepard, of Boston, as an auditor, and was fully heard. Damages were awarded in the sum of \$4317.60 which, together with costs and interest, amounting to \$65.16, was paid by the city.

7313. *Hamilton Manufacturing Co. vs. City of Lowell.*

7316. *Appleton Company vs. City of Lowell.*

The above cases are petitions to the Superior Court, under Ch. 127 of the Acts of 1890, in the nature of appeals from decisions of the Board of Assessors of the City refusing to abate a portion of the tax assessed against each of the petitioners for the year 1900. The cases were tried together before Mason, C. J. of the Superior Court in Boston, beginning December 16, 1902, and are now awaiting the decision of the court.

184. *Francis P. Rivet, trustee vs. City of Lowell.*

This was an action of contract brought in the Police Court of Lowell by the plaintiff to get possession of \$58.75, due from the city to Mary A. Mehan, for services as a teacher in the public schools. The plaintiff was appointed trustee in bankruptcy of the estate of said Mary A.

Mehan, and sought to get possession of the money due her as such trustee. The amount was not disputed, but it was thought best to pay only upon a decree of the court. The writ was dated April 1, 1902, and entered in court the first Saturday of May, 1902. Judgment was entered for the plaintiff for the amount due without costs, which was paid.

*James J. Fennell vs. City of Lowell.*

This is an action of tort for personal injuries alleged to have been received by the plaintiff, May 15, 1902, by reason of an alleged defect in the sidewalk on the northerly side of Winter Street. The writ is dated January 31, 1903, and is returnable to the Superior Court the first Monday of March, 1903.

476. *Tremont and Suffolk Mills vs City of Lowell.*

477. *Same vs. Same.*

478. *Same vs. Same.*

1618. *Same vs. Same.*

1619. *Same vs. Same.*

The above cases are all appeals to the Superior Court from the refusal of the Lowell Assessors to abate corporation taxes, as requested by the several petitioners.

No. 478 was tried in court at length before Arthur Lord, a commissioner appointed by the court in the years 1899 and 1900. The commissioner decided that for the reasons that the tax commissioner in determining the excise tax to be paid to the State has determined such assessed value to be just, and has deducted from his determination of the market value of the shares such assessed value of the real estate and machinery, and the corporation has paid its franchise tax to the State upon that basis, the corporation is not entitled to claim under the provisions of Ch. II of the Public Statutes, an abatement of its tax on account of the alleged over valuation of the land by the assessors. This finding was approved by the Superior Court and the case was taken on the exception of the petitioner to the Supreme Judicial Court, where the decision of the lower court was reversed. The case was then again referred to the same commissioner for a report upon the evidence, and in 1901 his second report was filed in the Superior Court sustaining the contention of the city that the real estate and machinery of the corporation were not overvalued. The case came up in October, 1902, before Mason

C. J. on the question of confirming the report of the commissioner. The petitioner contended that it had the right to try the case all over again in the Superior Court, and that the report of the commissioner should be treated in the same manner as an auditor's report, as *prima facie* evidence only. The court ruled that the petitioner might submit any evidence that was introduced before the commissioner, but had no right to introduce new evidence. To this ruling the petitioner excepted, and by agreement the stenographer's report of the evidence before the commissioner was submitted and re-argued before the court. A decision thereon has not yet been rendered.

The other cases, above mentioned, of the Tremont and Suffolk Mills against the city of Lowell are awaiting this decision and will probably be determined one way or the other in accordance therewith, without trial.

No. 772. *John H. Harrington, Col. of Taxes*  
*vs. James W. Pickering.*

No. 773. *Same vs. Charles J. Glidden.*

No. 774. *Same vs. Charles E. Adams.*

No. 775. *Same vs Francis Jewett.*

No. 776.

*Same vs. James W. Bennett.*

No. 777.

*Same vs. Levi Sprague.*

No. 778.

*Same vs. Asa C. Russell.*

All of the above cases, except the case against Charles E. Adams, in which Harrington, collector of taxes, is plaintiff, have been tried and verdicts rendered in favor of the city.

They were carried to the Supreme Judicial Court on defendants' exceptions, which were overruled, after which the defendant in the case against Charles J. Glidden sued out a writ of error to the United States Supreme Court, where the case is now pending, under an agreement which is on file in court that the other cases shall be disposed of in accordance with the decision of the United States Supreme Court in the Glidden case. Briefs have been filed and a decision will probably be reached during the current year.

*John Joseph O'Connor vs. William B. Jackson et als.*

This was a petition to the Supreme Judicial Court for a writ of mandamus to compel the Board of Health to recognize the petitioner instead

of Dr. William B. Jackson as a member of said board. It was contended that the appointment of Dr. Jackson by acting mayor, William E. Badger, was invalid and of no effect, and that the petitioner had a right to act in said board as a hold-over after the expiration of his term until his successor should be duly and legally appointed and confirmed. Two questions arise for the decision of the court.

First: Whether members of the Board of Health of Lowell have a right to hold over after the expiration of their terms of office until their successor is appointed.

Second: Whether William E. Badger, as acting mayor, has authority to make permanent appointments.

I deemed these questions of sufficient importance to the city to justify me in assuming to act for respondents, at their requests. The questions were argued before Mr. Justice Barker, and briefs were filed upon the understanding and agreement that the decision of the single justice should be final and binding upon both parties. Notice has been received that the court has entered a decree dismissing the petition, but as no written opinion was filed, there is nothing to indicate what the decision of the court was on either of the questions raised, or upon which of the points raised by the defendant the decision is based.



In the following cases no changes have been made since my last report:

869.        *Bernard Delaney et al vs. City of Lowell.*

922        *James Smith et al vs. City of Lowell.*

*George Ballou vs. City of Lowell.*

3032.      *Bragg Manufacturing Co. (U. S. Ct.) vs. City  
             of Lowell.*

372 1-2.   *D. Maria Parker vs. City of Lowell.*

7209.      *Napoleon Houle vs. City of Lowell.*

4324.      *Charles L. Wigren vs. City of Lowell.*

1280.      *Lowell Waste Co. vs. City of Lowell.*

117.        *D. Moody Prescott vs. City of Lowell.*



Since January 1st, 1902, the following opinions have been given in writing:

January 22. To Cyrus Barton.

Relating to the right of certain firms to do business with the City of Lowell, where one of its members is in the city government.

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February 8. To the Board of Health.

Relating to the granting of a license to the plumbing firm of Drury and Green.

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February 7. To Charles A. R. Dimon, Mayor.

Relating to the authority of the city council to appoint an auditor of accounts.

---

February 20. To L. A. Derby.

Relating to the Tax Cases, and showing amounts paid out from 1886 to 1901.

March 6. To the Overseers of the Poor.

Relating to hours of employment and duties and powers of sub-committees.

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March 18. To the City Council.

Relating to the Samuel Bently, Will.

---

March 19. To George Bowers.

In regard to the obligation of the L. L. & H. St. Ry. Co. to keep First Street in repair.

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March 22. To the Committee on Streets.

Relating to the obligation of the Proprietors of the Locks and Canals to build and maintain bridge over Pawtucket Canal on Broadway.

---

April 16. To A. B. Hilliard.

In regard to raising a flag pole on South Common.

April 17. To LaForest Beals.

Relating to the right of the City to dispose of dilapidated buildings, after due notice to the owner.

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April 24. To Charles A. R. Dimoni, Mayor.

Relating to the appropriation of money for the observance of Memorial Day.

---

May 29. To Hugh McOsker.

Relating to remarks of Rev. Mr. Wright upon the Board of Overseers of the Poor before a legislative committee.

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July 7. To the City Council.

In regard to an additional appropriation for the tax cases.

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July 10. To Guy Holbrook, M. D.

Relating to the appointment of clerk in the Board of Health.

May 20. To the City Government.

Relating to the election of a new Mayor, upon the death of Mayor Dimon.

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August 30. To Frank M. Dowling.

Relating to Shade Trees.

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July 30. To H. M. Potter.

Relating to the right of a certain soldier's widow to state aid.

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August 18. To George Bowers.

Relating to the rights of the street railway on Pawtucket Bridge.

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September 6. To Fred H. Rourke.

Relating to coal contract of Mr. Cawley with the City.

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September 8. To Girard P. Dadman.

Relating to State Ballots.

September 15. To LaForest Beals.

Relating to sidewalk on Varnum Avenue, Pawtucketville.

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September 25. To Abel Wheeler.

Relating to the Welsbach Company.

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September 30. To Fred H. Rourke.

Relating to coal contract of D. W. Horne & Son with the City of Lowell.

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October 3. To Frank M. Dowling.

Relating to the salary of the clerk of Board of Health.

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October 4. To Col. James H. Carmichael.

Relating to the right of a certain resident of Westford to vote in the City of Lowell.

October 24. To Wm. E. Badger, Acting Mayor.

Relating to the rebuilding of the rifle range.

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October 28. To the Board of Assessors.

Relating to the taxation of land along the  
Canal on Anne St.

Respectfully Submitted,

FRANCIS W. QUA,

*City Solicitor.*



ANNUAL REPORT

OF THE

INSPECTOR OF WIRES

FROM FEBRUARY 1, 1902, TO MARCH 1, 1903.



LOWELL, MASS.  
COURIER-CITIZEN COMPANY,  
1903.



CITY OF LOWELL.

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In Board of Aldermen, March 10, 1903.

Received and ordered on file.

GIRARD P. DADMAN,  
*City Clerk.*

## REPORT OF THE INSPECTOR OF WIRES.

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LOWELL, MASS., March 1, 1903.

*To His Honor, the Mayor, and Members of the Board of Aldermen of the City of Lowell :*

GENTLEMEN :—I respectfully submit my fourth annual report and the fourth annual report issued by the Wire Department since its organization, showing the work accomplished from February 1, 1902, to March 1, 1903.

We have notified 392 abutters on streets where pole locations have been asked for, and have granted public hearings to remonstrants to pole locations on Fletcher, Tyler, Walker and East Merrimack streets, and the petitioners for pole locations on said streets have been given leave to withdraw.

The following table shows the number of pole locations granted to the Lowell Electric Light Corporation during the year.

Streets.	No. Poles.
First street, corner of Simpson street.....	1
Pleasant street, west side .....	4
Parkview avenue, east side .....	7
Hovey street, south side .....	1
Hovey street, north side .....	2
Andover street, corner of Wentworth avenue.....	1
Carlisle street, westerly side.....	12
Methuen street, corner of Mort avenue .....	1
West Ninth street, south side .....	4
Saratoga street, south side .....	2
Moore street, south side .....	1
Crosby street, south side.....	3
Crosby street, north side.....	2
Sanders avenue, west side .....	2
Dudley street, south side .....	1
Lakeview avenue, corner of Ottawa street .....	1
Shaw street, corner of School street.....	1
Hawthorne street, easterly side.....	2
Gibson street, west side .....	2
Middlesex street, northerly side .....	3
William street, south side .....	2

The following table shows the number of pole locations granted to The New England Telephone and Telegraph Company of Massachusetts during the year.

Streets.	No. Poles.
Sargent street, between School and Phillips streets .....	3
Holyrood avenue, between Hovey street and No. 170 Holyrood avenue.....	7
D street, from Warwick to Powell street .....	12
Ludlam street, near Hildreth street .....	11
Riverside street, to Dracut Town line .....	13
Spencer street, from Gorham street towards Boston road..	9
Royal street, west side .....	4
Sheldon street, between Chelmsford and Bellevue streets ..	7
Riverside street, between Conduit and Plymouth streets...	14
Sixth avenue, between Mt. Hope and Dunfeys streets .....	3
Cosgrove street, between Gorham street and No. 27 Cosgrove street.....	3
Plain street, between N. Y., N. H. & H. R. R. and Tanner street.....	7
Cheever street, between Pawtucket and Tucker streets....	6
Tenth street, between Methuen and Christian streets.....	6
Phillips street, corner of Broadway.....	1
B street, south side .....	3
Sanders avenue, east side.....	1
Parker street, north side.....	3
Parker street, south side .....	1
Royal street, west side .....	1
Meadowcroft street, northerly side.....	1
Court street, near Gorham street .....	1
Hastings street, between Liberty and No. 79 Hastings street.	2
B street, between Warwick and Wilder streets.....	2
Sanders avenue, between Dudley avenue and Pine street ..	1
Bertrand street, between Sanders and Georgia avenues ....	1
Fourth avenue, between Mt. Hope and New Moody streets.	5
Chelmsford street, corner of Coburn avenue.....	1
Starbird street, east side.....	5
Woodward avenue, corner of Starbird street .....	1
Kinsman street, east side.....	4
Nichols street, west side.....	2

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 141

Making a total of 196 pole locations granted during the year.

## INSIDE WIRING.

There have been 284 cases of inside wiring during the year. A standard entrance cutout should be adopted. At present, contractors have the option of using several makes of cutouts, necessitating the use of as many different fuses as there are cutouts. This matter could be satisfactorily arranged by the adoption of one style.

My preference is the cartridge fuse style, and I hope to see an early adoption of the same.

The following table shows the character of service for the year ending March 1, 1903.

Character of Premises.	Arcs.	Inedts.	Motors.	H. P.
157 Stores .....	42	2038	25	59½
49 Residences .....		1386	2	¼
4 Banks .....		380		
21 Offices .....		82	10	6½
2 Club Houses .....		75	2	31
5 Printing Offices.....		91	1	3
13 Factories .....		1014	7	34½
1 Laundry .....		7		
1 Brewery .....			1	4
1 Jail .....		50		
2 Theatres.....		75		
8 Restaurants .....	1	140	2	4
3 Stables .....		38		
7 Hotels.....	1	168	2	3¼
2 Schools .....		308		
1 Hospital .....		16		
2 Halls.....		1050		
3 Churches .....		133		
1 City Hall .....		500		
1 Police Station .....		60		
<hr/> 284	<hr/> 44	<hr/> 7611	<hr/> 52	<hr/> 146

## STREET RAILWAY COMPANY.

During the year the Street Railway Company erected 148 poles, as follows: 34 round chestnut poles; 92 square hard pine poles; 22 steel poles.

The Company commenced the welding of their tracks and have, at the present time,  $6\frac{3}{4}$  miles of track welded. This is a step in the right direction and will be of great value to the Company as well as to the city, as it secures a better return to the Power Station, thus doing away with the great loss of current caused by imperfect ground connections, and also eliminating the danger caused by electrolysis.

## UNDERGROUND WIRES.

The Lowell Electric Light Corporation and The New England Telephone and Telegraph Company of Massachusetts are making considerable progress in placing their wires underground. During the year, The New England Telephone and Telegraph Company of Massachusetts have laid underground conduits in the following streets:—

Chelmsford street, between Howard and Shaw streets.

Gorham street, between Middlesex and Manchester streets.

Wilder street, between Westford and Pine streets.

School street, between Varnum and Pawtucket streets.

Mansur street, between Fairmount and Nesmith street.

Fairmount street, between Mansur and Fairview streets.

Talbot street, between Fairmount street and Belmont avenue.

Belmont avenue, between Fairview and Mansur streets.

Across Mansur street about half way between Belmont avenue and Fairmount street.

Across Fairview street about half way between Belmont avenue and Fairmount street.

Mansur street about 225 feet east from Belmont avenue.

The Lowell Electric Light Corporation have laid underground conduits in the following streets: —

Andover street, from the corner of Concord and Andover streets to the intersection of Andover and Nesmith streets.

I would like to call attention to the appearance of Market street since poles and wires have been removed. It must be admitted that the appearance of the street has been greatly improved and the danger of falling wires need no longer be feared. What a benefit it would have been to the Fire Department if the poles and wires on Prescott street had been removed before the fire occurred that destroyed the Burbank building. It is my belief that there would have been no loss of life and that the property would have been but slightly damaged. The time lost in cutting wires, so that ladders could be raised, is the principal reason for this great loss.

This was one of the streets that prompted me to appear before the Legislature with a bill asking relief from overhead wires. Some of the property owners on this street were requested to appear in favor of the bill, and while some approved of it, none took interest enough to appear in favor of it.

The Police and Fire Departments have made great progress in placing their wires underground, and should be assisted in every way possible in removing all their wires, thus removing one argument why corporations should not be compelled to place their wires underground.

Respectfully submitted.

(Signed) JAMES F. McELHOLM,

*Inspector of Wires.*

ANNUAL REPORT  
OF THE  
INSPECTOR OF MILK  
AND VINEGAR  
OF THE  
CITY OF LOWELL,

FOR THE YEAR 1902.



LOWELL, MASS.  
UNION PRINTING COMPANY

1903.





# REPORT.

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*To His Honor the Mayor, and the Board of Aldermen of the City of Lowell :*

GENTLEMEN:—I have the honor to submit my eleventh annual report as Inspector of Milk and Vinegar.

The work of the department has been continued on the same lines as last year, by the chemical analysis of all samples of milk, vinegar, and butter taken, and many that have been brought in. There have also been many samples of water analyzed.

The duties of the Inspector, as defined by statutes under which he acts, are the issuing of licenses, the registration of stores where milk or oleomargarine are sold, collection and inspection of samples, and the enforcement of the law in the courts.

The statistics of the office and the detail of the work performed will be found under the proper headings.

## LICENSES.

The statutes require the Milk Inspector to license every person who conveys milk, in carriages or otherwise, for the purpose of selling the same annually, on the first day of May, or within thirty days thereafter, and that they shall pay fifty cents for the use of the City. The statutes also require all stores, booths, stands, or market places, before selling milk, to register in the books of the Inspector and pay fifty cents, which fee is paid but once. Licenses are issued only in the name of owners, and may not be sold, assigned or transferred. Each license records the name, residence, place of business, number of carriages or other vehicles used, the name and residence of every driver or other person engaged in the carrying or selling, and the number of the license.

The licensee is required to cause his name, the number of his license, and his place of business to be legibly placed on each outer side of all carriages or vehicles used by him in the sale and conveyance of milk, and to report to the Inspector any change of driver or other persons employed; for failure to comply with these requirements, or for selling or exposing for sale from carriages or other vehicles, without first being licensed, a fine of not less than thirty nor more than one hun-

dred dollars may be imposed. Failure to register for the sale of milk from store, booth, stand, or market place, is punishable by a fine not exceeding twenty dollars.

Number of licenses to dealers conveying milk by carriages or otherwise for the purpose of sale.....	153
Number of registrations of store keepers engaged in the sale of milk .....	59
Total number of licenses and registrations .....	212
Received for licenses and registrations.....	\$106.00

## INSPECTION.

It is the duty of the Inspector or Collector to enter all places where milk is stored or kept for sale, and take samples for analysis. It is the custom of the Inspector to take samples from wagons and stores in about the same proportion. There are also many samples brought in by citizens which are analyzed free of charge.

In most instances where milk taken from stores has not been up to the legal standard, warnings have been issued, and in almost every case they have caused an improvement in the quality of milk sold. It is the custom to pay for milk taken from stores, but not for that taken from wagons.

Total number of milk inspections ... ..	2980
Total number of warnings sent.....	159

The statutes provide penalties :

For neglecting or refusing to license or register for sale of milk.

For selling or exposing for sale, adulterated milk, milk to which water or any foreign substance has been added, milk not of standard quality, milk produced from sick or diseased cows, or milk produced from cows fed on the refuse of distilleries.

For selling or offering for sale, as pure milk, milk from which the whole or any part of the cream has been removed.

For selling skimmed milk, unless from cans or other vessels marked as required by statute.

For selling, exposing for sale, or possessing with intent to sell, milk or skimmed milk which is not of standard quality, *i. e.*, containing less than thirteen per cent. of milk solids, in the case of whole milk; or less than nine and three-tenths per cent. of milk solids, exclusive of fat, in case of skimmed milk, except in the months of April, May, June, July and August, when whole milk shall contain not less than twelve per cent. of solids, nor less than nine per cent. of solids not fat, nor less than three per cent. of fat.

For obstructing in any manner the Milk Inspector or his assistants in the performance of their duties.

For the sale or exposure for sale, as cider vinegar, vinegar which is not made exclusively of apple cider.

For the sale, or exposure for sale, of vinegar containing any artificial coloring matter, or containing any preparation of lead, copper, sulphuric acid or any ingredient injurious to health.

For the sale of any vinegar not of standard quality, *i. e.*, containing less than four and one-half per cent. of absolute acetic acid, or, in the case of cider vinegar, of cider vinegar solids.

It is the duty of the Inspector to make complaint for any of the offences thus enumerated, which may be brought to his notice as a result of his analysis of samples, or on the information of any person who lays before him satisfactory evidence upon which to sustain such complaint.

## STANDING OF MILK.

The following is the average standing of the samples of milk analyzed each month:

### TOTAL SOLIDS.

	From Wagons.		From Stores.
	per cent.		per cent.
January .....	12.89		
February .....	13.07	12.79	
March .....	13.20	12.60	
April .....	13.46	13.34	
May .....	13.21	13.00	
June .....	12.50		
July .....	12.73	12.42	
August .....	12.57	13.14	
September .....	12.92	13.20	
October .....	13.09		
November .....	13.34	13.18	
December .....	12.80	12.36	

During the Autumn and early Winter months there has been a shortage of milk, amounting at one time to almost a famine, caused by the high price of grain. For the last month it has been more plenty, and at this writing is in very good supply. Milk being an article of food, it is of the utmost importance that it should be properly cared for, before it is delivered as well as after, and I take pleasure in saying that as far as I have been able to observe, most of the milkmen take excellent care of their milk, and some are very particular to have everything that comes in contact with it as cleanly as possible.

#### BUTTER.

The Legislature in 1899 passed an Act (Chapter 340) entitled An Act relative to Renovated Butter, so-called.

BE IT ENACTED, etc., as follows:

SECTION 1. Whoever, by himself, or his agents, or as the servant or agent of any other person, sells, exposes for sale, or has in his custody or possession with intent to sell, any article or compound which is produced by taking original packing stock or other butter, or both, and melting the same, so that the butter fat can be drawn off, then mixing the said butter fat with skimmed milk, or milk, or cream, or other milk products, and re-churning the said mixture; or which is produced by any similar process and is commonly known



as process butter, shall have the words "Renovated Butter," conspicuously stamped, labelled or marked in a straight line in printed letters of plain, uncondensed Gothic type, not less than half an inch in length, so that the words cannot easily be defaced, upon the top, side and bottom of every tub, firkin, box or package containing said article or compound.

SECT. 2. In case of the retail sale of said article or compound, not in the original package, the seller shall, by himself or his agents, attach to each package so sold, and shall deliver therewith to the purchaser, a label or wrapper bearing in a conspicuous place upon the outside of the package the words "Renovated Butter," in printed letters in a straight line of plain, uncondensed Gothic type, not less than half an inch in length.

SECT. 3. Whoever violates any of the provisions of this Act shall be punished by a fine of not less than one hundred dollars nor more than five hundred dollars, or by imprisonment in the house of correction for a term not exceeding one year.

Approved May 5, 1899.

In the months of April and May of this year I sent out and bought 54 samples of butter as sold in the stores; upon analysis 24 or 44 per cent. proved to be renovated butter, so-called. I decided to bring one case in court as a test, and



called on Mr. Irish of the high school, and later Mr. Olney of the textile school, both expert chemists, to confirm my analysis, which they did. We secured a conviction in the police court; the case was appealed to the Superior Court, and came on for trial in the latter part of October, when we fought it out and secured a conviction before a jury. The defendant's counsel appealed to the high court on points of law. As yet it has not been decided, but I have no doubt it will be in our favor; we shall then be able to go ahead with cases as they come up, unless in the meantime the legislature changes the law.

The object of the law is to give the purchaser knowledge of what he is buying. That 44 per cent. of butter bought by us and at good prices proved to be "Renovated Butter" shows the extent the article is being sold.

### VINEGAR.

Samples analyzed ..... 76

The vinegar sold in Lowell the past year has been fully up to the standard.

### WATER.

Samples analyzed ..... 15

### ASPHALT.

During the month of November and up to the fifth of September the city engineer brought

samples to the number of 18 to the office to determine the per cent. of Bitumine in the top dressing of the Asphalt pavement being used by the Merrimack Paving Company on Suffolk street and Broadway; the report of the analysis was made to the city engineer.

In conclusion I wish to thank his Honor, the Mayor, for his advice and assistance in my work.

Respectfully submitted,

THOMAS O. ALLEN,

*Inspector of Milk and Vinegar.*

Lowell, January 1, 1903.



# CITY OF LOWELL.

## LIST OF JURORS.

1903.

### A

ABBOTT, HENRY F.....	278 Branch st.....	dealer
ABBOTT, JOHN W.....	12 Fremont st.....	tinsmith
ABELS, ALEXANDER M.....	43 Nicollet st.....	merchant
ABELS, SAMSON.....	43 Nicollet st.....	merchant
ABELL, ORREN W.....	263 Westford st.....	compositor
ADAMS, CHARLES E.....	218 Wilder st.....	hardware
ADAMS, CECIL L.....	244 Market st.....	clerk
ADAMS, EDWARD E.....	34 Middlesex st.....	music teacher
ADAMS, ENOS H.....	332 East Merrimack st.....	shoe dealer
ADAMS, FRANK H.....	90 Third st.....	carpenter
ADAMS, THEODORE.....	21 Windsor st.....	janitor
ADAMS, WALTER S.....	13 Read st.....	machinist
ADAMS, WILLIAM A.....	69 Nichols st.....	scale maker
AHLBERG, CARL A.....	rear 33 South Whipple st.....	machinist
ALLEN, CHARLES O.....	3 Myrtle st.....	clerk
ALLEN, JOHN F.....	9 Whiting st.....	loom fixer
ALLEN, THOMAS O.....	947 Middlesex st.....	inspector of milk
ALLEN, WALTER N. M.....	39 Elliot st.....	machinist
AMADON, FRED C.....	53 Washington st.....	clerk
AMES, ADELEERT.....	333 Andover st.....	gentleman
AMES, JAMES H.....	158 Shaw st.....	gas fitter

## LIST OF JURORS.

**A**

ANGELO, JAMES J..... 51 Pond st.....piper  
 APPLETON, FRANCIS E..... 59 Pine st.....paymaster  
 ARCHER, CLARENCE H.....201 Appleton st.....clerk  
 ARMSTRONG, FRED W..... 75 Aiken av.....shoemaker  
 ARNOLD, WILLIAM A..... 75 Fremont st.....clerk  
 ARTHUR, JAMES B..... 92 Bellevue st.....gentleman  
 ASHWORTH, GEORGE L..... 33 Rock st.....file cutter  
 ATWOOD, EARL K..... 43 Twelfth st.....beltmaker  
 ATWOOD, WILLIAM P..... 17 Nineteenth st.....chemist  
 AYER, CHARLES F.....249 Pawtucket st.....banker

**B**

BABCOCK, HENRY E..... 75 Bowers st.....salesman  
 BACHELDER, GEORGE H.....210 Appleton st.....bicycles  
 BAILEY, FREDERICK.....142 First st.....druggist  
 BAILEY, HARRY L..... 76 Fremont st.....clerk  
 BAILEY, JOHN A..... 49 Grove st.....agent  
 BAKER, FREDERICK W.....136 Myrtle st.....machinist  
 BAKER, J. AVISON.....103 South Loring st.....music teacher  
 BALCOM, LON M.....175 Warwick st.....laborer  
 BALDWIN, EDWIN K..... 92 Holyrood av.....bookkeeper  
 BALDWIN, JOHN D. S.....534 Merrimack st.....moulder  
 BALDWIN, WILLIAM H.....1045 Gorham st.....teamster  
 BARCLAY, OSCAR R.....162 Smith st.....carpenter  
 BARKER, JOSEPH S.....538 Chelmsford st.....machinist  
 BARNARD, VIRGIL G..... 68 Harvard st.....bookkeeper  
 BARNES, CHARLES O..... 36 London st.....printer  
 BARNES, HENRY W..... 30 Huntington st.....tailor  
 BARNEY, FRED M..... 74 Westford st.....grocer  
 BARON, CHARLES C..... 88 Eleventh st.....clerk  
 BARR, I. WALWIN..... 53 Beech st.....student  
 BARR, WILLIAM A..... 48 Varney st.....clerk  
 BARRETT, EDWARD J..... 94 School st.....merchant

# LIST OF JURORS.

3

## B

BARRY, JAMES W.....	177 Middlesex st.....	machinist
BARRY, PATRICK H.....	294 Wentworth av.....	driver
BARSTOW, WALTER T.....	7 Willie st.....	clerk
BARTLETT, HAYWARD M.....	2 West Eleventh st.....	clerk
BARTLETT, HENRY.....	141 Nesmith st.....	superintendent
BARTLETT, JOSEPH O.....	15 Barclay st.....	laborer
BARTLETT, ROBERT G.....	78 Stevens st.....	real estate
BARTLETT, WALTER E.....	523 Fletcher st.....	clerk
BARTLETT, WILLIAM T. S.....	167 Varnum av.....	hardware
BARTON, CYRUS .....	78 South Walker st.....	contractor
BASSETT, CYRUS R.....	90 Andrews st.....	operative
BATEMAN, JOHN F.....	5 Stevens st.....	surveyor
BEALS, GEORGE M.....	97 Jewett st.....	harness maker
BEALS, HORACE P.....	84 Marlborough st.....	lumber dealer
BEAN, FRANK S.....	44 Sixth st.....	merchant
BEAN, SYLVESTER.....	120 Methuen st.....	contractor
BEANE, THOMAS J.....	104 Pleasant st.....	insurance
BELL, CHARLES W.....	285 High st.....	clerk
BELL, EDWIN F.....	207 Westford st.....	moulder
BELL, FRANK A.....	56 Methuen st.....	machinist
BENNETT, GEORGE A.....	51 Marshall st.....	roofer
BENNETT, JOHN C.....	45 Walker st.....	merchant
BERNARD, ERNEST A.....	58 Cabot st.....	barber
BERRY, WALTER P.....	64 Lane st.....	door maker
BERTRAND, ARTHUR M.....	18 C st.....	tailor
BIBEAULT, ALPHONSE.....	513 Wilder st.....	contractor
BICKFORD, EDWIN S.....	240 Market street.....	mill superintendent
BICKFORD, JOHN A.....	55 Sixth st.....	clerk
BIGGS, JOHN.....	24 Canton st.....	carpenter
BILL, FREEMAN M.....	30 West Sixth st.....	grocer
BISBEE, HERBERT L.....	380 Central st.....	baker
BISHOP, HERBERT L.....	28 May st.....	clerk
BISSELL, WILLIAM E. K.....	117 Third st.....	salesman

**B**

BIXBY, ALBERT J.....	80 D st.....	overseer
BIXBY, NEWTON.....	8 Livermore st.....	operative
BLAZON, DONAT.....	65 Falmouth st.....	pressman
BLESSINGTON, JOHN B.....	53 Second av.....	foreman street dept.
BLODGETT, EMERY F.....	37 Midland st.....	bookkeeper
BLODGETT, MORRIS S.....	19 Grove st.....	machinist
BOARDMAN, ALBERT W.....	2 Brown's ct., Marshall st....	machinist
BOARDMAN, GEORGE H.....	356 East Merrimack st.....	clerk
BOARDMAN, HARRY K.....	113 Fort Hill av.....	salesman
BOARDMAN, WILLIAM W.....	135 Liberty st.....	real estate
BOISVERT, CHARLES H.....	94 Lilley av.....	baker
BOLTON, THOMAS M.....	100 Mt. Washington st....	harness maker
BONENFANT, ALDERIC J.....	4 Butterfield st.....	clerk
BOOTH, JOHN J.....	188 South st.....	laborer
BOSWORTH, GEORGE A.....	256 School st.....	clerk
BOUCHER, THOMAS E.....	61 Hampshire st.....	clerk
BOULAIS, ARTHUR N.....	497 Moody st.....	clerk
BOULGER, JOHN B.....	129 Pleasant st.....	clerk
BOULGER, THOMAS P.....	127 Pleasant st.....	dealer
BOUTWELL, ROSWELL M.....	33 Wannalancit st.....	merchant
BOWEN, FRANK A.....	43 Gates st.....	superintendent
BOWEN, GEORGE F.....	9 Ralph st.....	yard master
BOWEN, WILFORD G.....	9 Ralph st.....	clerk
BOWERS, DUNCAN V.....	451 Lawrence st.....	grocer
BOWERS, FRANK.....	195 Fletcher st.....	painter
BOWERS, WILLIAM H.....	195 Fletcher st.....	cigar maker
BOYERS, JOHN.....	12 Albion st.....	loom fixer
BOYLE, JAMES H.....	110 Congress st.....	laborer
BOYLE, JOHN F.....	32 Whipple st.....	clerk
BOYLE, JOHN L.....	54 Lane st.....	machinist
BOYLE, THOMAS H.....	1014 Lakeview av.....	liquor dealer
BOYNTON, D. RAYMOND.....	180 Pawtucket st.....	grocer
BOYNTON, FRED J.....	1117 Middlesex st.....	auditor

# LIST OF JURORS.

5

## B

BRACKETT, ALBERT W.....	71 Middlesex st.....	overseer
BRADBURY, ROLFE.....	142 Princeton st.....	merchant
BRADEN, THOMAS H.....	9 Coral st.....	contractor
BRADLEY, EDWARD.....	274 Thorndike st.....	laborer
BRADLEY, RAYMOND D.....	62 Rock st.....	teamster
BRADT, DAVID H.....	125 Mt. Vernon st.....	baker
BRADT, GERRITT J.....	523 Fletcher st.....	baker
BRAZER, RALPH F.....	46 Fairmount st.....	merchant
BREEN, JOHN P.....	9 Lyon st.....	operative
BREEN, PHILIP J.....	9 Lyon st.....	grocer
BRENNAN, JOHN J.....	196 Concord st.....	clerk
BRIERLEY, EUGENE L.....	74 South Loring st.....	painter
BROCK, GREENLEAF C.....	118 First st.....	druggist
BROOKS, HENRY O.....	17 Nicollet st.....	civil engineer
BROOKS, WILLIAM C.....	117 Coburn st.....	grocer
BROTHERS, GEORGE W.....	62 Royal st.....	clerk
BROWN, CHARLES W.....	185 Andover st.....	druggist
BROWN, FRANK K.....	321 High st.....	wool buyer
BROWN, JOHN A.....	18 Bourne st.....	janitor
BROWN, MALCOLM D.....	517 Chelmsford st.....	manufacturer
BROWN, MILON D.....	295 Central st.....	cigars
BROWN, NELSON.....	275 Gibson st.....	gentleman
BROWN, OSCAR W.....	50 Queen st.....	janitor
BROWN, PHILIP P.....	59 Second av.....	coal dealer
BROWN, WALTER R.....	182 Westford st.....	civil engineer
BROWN, WILLIAM D.....	9 Simpson st.....	real estate
BROWN, WILLIAM G.....	185 Andover st.....	clerk
BROWN, WILLIAM H.....	172 Branch st.....	grocer
BROWN, WILLIAM H.....	140 Hampshire st.....	teamster
BRUCE, KENNETH R.....	2-41 Bowers st.....	clerk
BRUNELLE, PIERRE, JR.....	825 Merrimack st.....	jeweler
BRYANT, FRED A.....	284 Pine st.....	musician
BUCKLEY, GEORGE.....	190 High st.....	motorman



## LIST OF JURORS.

**B**

BUCKLEY, JOHN .....	305 Summer st .....	bookkeeper
BUGBEE, D. WEBSTER.....	63 Oakland st.....	overseer
BULL, CHARLES H.....	32 Second st.....	carpenter
BURBANK, JOHN E.....	36 Prescott st.....	merchant
BURBANK, SAMUEL .....	72 Fort Hill av .....	clerk
BURBECK, FREDERICK A .....	20 Middlesex st .....	clerk
BURBECK, WILLIAM J .....	32 Sheldon st .....	milk dealer
BURGESS, EDWIN A.....	10 Walden st.....	news dealer
BURKE, EDWARD H.....	112 Lewis st.....	machinist
BURKE, EDWARD N .....	216 Nesmith st .....	superintendent
BURKE, MICHAEL D .....	205 Lakeview av.....	fireman
BURKINSHAW, JOSEPH.....	71 Westford st .....	druggist
BURNHAM, CRAWFORD .....	553 Fletcher st .....	lumber dealer
BURNS, EDWARD .....	154 Concord st .....	wool sorter
BURNS, FRANCIS A .....	30 Chestnut st .....	bookbinder
BURNS, GEORGE E.....	25 Eighteenth st.....	clerk
BURNS, JAMES E.....	23 State st .....	operative
BURNS, JOHN J.....	607 Westford st.....	clerk
BURNS, JOSEPH F.....	68 Smith st.....	clerk
BURRAGE, HERBERT D.....	139 Stevens st.....	clerk
BURRILL, JOHN F.....	612 Beacon st.....	clerk
BURTT, ARTHUR M.....	145 Beacon st.....	architect
BURTT, PAUL R.....	292 Fairmount st.....	florist
BUTCHER, I.OBERT J.....	365 Wilder st.....	superintendent
BUTLER, FRANK E.....	4 Crane av.....	pattern maker
BUTLER, FREEMAN H.....	665 Varnum av.....	druggist
BUTLER, JOSIAH.....	139 Stevens st.....	clerk
BUTLER, THOMAS F.....	2 Lowell pl.....	machinist
BUTLER, WILLIAM.....	176 Broadway.....	laborer
BUTTERFIELD, ARTHUR D.....	84 Forrest st.....	printer
BUTTERWORTH, SAMUEL D.....	153 Moore st.....	clerk
BYAM, OTIS.....	79 Canton st.....	milkman
BYRNE, PATRICK J.....	571 East Merrimack st.....	coachman

# LIST OF JURORS.

7

## C

CADDELL, PETER.....	17	Caddell av.....	carpenter
CADDELL, WILLIAM.....	557	Chelmsford st.....	shipper
CADY, GEORGE L., JR.....	150	Mt. Vernon st.....	manufacturer
CADY, HARRY F.....	82	Grand st.....	real estate
CAHILL, JAMES H.....	32	Third st.....	canvasser
CAISSE, WILFRED P. C., JR.....	273	Salem st.....	druggist
CALDERWOOD, WILLIAM.....	434	High st.....	cigars and tobacco
CAMPBELL, JAMES L.....	83	Queen st.....	salesman
CARNEY, GEORGE S.....	39	Plymouth st.....	engineer
CARNEY, OWEN J.....	20	Market st.....	blacksmith
CARPENTER, HENRY.....	19	Dempsey pl.....	operative
CARPENTER, W. IRVING.....	28	South Whipple st.....	dealer
CARRIGG, JOHN J.....	18	Second st.....	clerk
CARSON, GEORGE.....		Middlesex yard.....	watchman
CARTER, ALBERT D.....	105	Moore st.....	manufacturer
CARTER, JOHN T.....	97	Hastings st.....	cabinet maker
CASEY, GEORGE W.....	45	Willow st.....	tanner
CASEY, THOMAS P.....	386	Concord st.....	brewery
CASHIN, CHARLES E.....	31	Perrin st.....	machinist
CASSIDY, JOHN J.....	263	Thorndike st.....	machinist
CAVANAUGH, SIMON A.....	98	Andover st.....	salesman
CHADWICK, ALFRED M.....	87	Fort Hill av.....	paymaster
CHADWICK, CHARLES H.....	1354	Gorham st.....	salesman
CHALIFOUX, EDWARD E.....	305	Summer st.....	salesman
CHALIFOUX, JOSEPH L.....	377	Wilder st.....	merchant
CHANDLER, JOHN A.....	310	Westford st.....	watchman
CHARLTON, RICHARD.....	538	Westford st.....	designer
CHARTERS, REUBEN P.....	112	Congress st.....	watchman
CHASE, ERNEST D.....	19	Lincoln st.....	designer
CHASE, FRANK K.....	165	Mt. Hope st.....	clerk
CHASE, GEORGE A.....	36	Canton st.....	superintendent
CHASE, HOWARD C.....	237	Foster st.....	machinist
CHEEVER, DAVID K.....	12	Lane st.....	dealer

## C

CHENEY, EDMUND J.....	19	Grove st.....	barber
CHURCH, FREDERICK C.....	444	Fletcher st.....	insurance agent
CLARK, AVERY B.....	33	Anne st.....	superintendent
CLARK, CORNELIUS E.....	228	High st.....	machinist
CLARK, JOHN A.....	23	Oak st.....	clerk
CLARK, MARION S.....	203	Gibson st.....	cashier
CLARK, OWEN W.....	253	Central st.....	clerk
CLARK, T. FRANK.....	33	Davidson st.....	collector
* CLAUD, EMILE.....	494	Merrimack st.....	operative
CLAY, HENRY.....	31	Race st.....	box maker
CLAY, MILO D.....	411	School st.....	painter
CLEE, WILLIAM.....	12	Wachusett st.....	weaver
CLEMENT, DANIEL W.....	23	Emery st.....	clerk
CLIFFORD, CHARLES T.....	99	Westford st.....	dentist
CLIFFORD, EVERETT A.....	20	Lane st.....	clerk
CLIFFORD, WARREN.....	252	High st.....	dyer
CLOUGH, CHARLES H.....	546	Rogers st.....	clerk
CLUER, ARTHUR H.....	3	Wachusett st.....	harness dealer
CLUIN, JOHN J.....	130	Fort Hill av.....	jeweler
CLUNE, PETER A.....	39	Lawrence st. ct.....	barber
COBB, FRANK.....	19	Fernald st.....	painter
COBURN, ARTHUR S.....	49	Oak st.....	clerk
COBURN, CHARLES H.....	279	Nesmith st.....	merchant
COBURN, CLARENCE G.....	215	Mammoth road.....	grocer
COBURN, FRANK A. B.....	759	Stevens st.....	poultry
COBURN, HARRY W.....	56	Sixth st.....	dentist
COBURN, LAURENS W.....	204	Cross st.....	clerk
COBURN, WALTER.....	14	Wannalancit st.....	waste manufacturer
COBURN, WALTER S.....	25	Nicollet st.....	manufacturer
COFFIN, ABRAM.....	712	Suffolk st.....	carpenter
COLBY, CHARLES A.....	44	Barclay st.....	teamster
COLLINS, CORNELIUS.....	44	Common st.....	machinist
COLLINS, DANIEL.....	39	Lyon st.....	laborer

# LIST OF JURORS.

9

## C

COMMERFORD, THOMAS F.....	137	Stackpole st.....	clerk
CONANT, EDMUND B.....	39	Talbot st.....	appraiser
CONANT, FREDERICK.....	643	Westford st.....	manager
CONATON, PETER F.....	43	Marlborough st.....	plumber
CONDON, JOHN H.....	94	Midland st.....	janitor
CONLEY, JOHN F.....	30	Davidson st.....	plumber
CONLEY, LEANDER F.....	69	Tolman av.....	overseer
CONLEY, MARTIN F.....	7	Richmond st.....	barber
CONNELL, RICHARD J.....	28	Walnut st.....	printer
CONNERS, EDWARD F.....	163	Plain st.....	merchant
CONNERS, PHILIP P.....	459	Chelmsford st.....	merchant
CONNOR, BERNARD A.....	489	Broadway st.....	laborer
CONNORS, THOMAS J.....	5	Franklin ct., Adams st.....	laborer
COOKE, CHARLES E.....	182	Smith st.....	elevator
COONEY, DENNIS J.....	74	Elm st.....	laborer
COOPER, GUY F.....	17	Liberty st.....	clerk
COOPER, HENRY C.....	46	Talbot st.....	furniture
COPE, EDWIN.....	342	Pawtucket st.....	trader
COPELAND, CHARLES S.....	586	School st.....	electrotyper
CORBETT, JOHN H.....	14	Burns st.....	merchant
CORBETT, MICHAEL.....	32	Highland st.....	dealer
CORCORAN, JOHN H.....	17	Watson st.....	laborer
CORCORAN, JOSEPH F.....	40	Fort Hill av.....	printer
CORLISS, AMMI L.....	9	Methuen st.....	machinist
CORWIN, HARRY J.....	101	Westford st.....	clerk
COSSETTE, MARJORIQUE J.....	66	Willow st.....	clerk
COSSETTE, MOISE.....	499	Moody st.....	janitor
COSTELLO, THOMAS F.....	293	Nesmith st.....	plumber
COTE, FRANCOIS M.....	139	Cushing st.....	painter
COTTON, ARTHUR W.....	29	Anne st.....	machinist
COUGHLIN, JEREMIAH.....	359	Concord st.....	gardener
COURTNEY, HUGH F.....	32	West Third st.....	clerk
COURTNEY, PATRICK.....	11	Marsh st.....	retired

## LIST OF JURORS.

## C

COX, PATRICK J.....	150	Charles st.....	operative
COX, SIMON.....	71	Church st.....	shoemaker
COX, TERENCE J.....	543	East Merrimack st.....	barber
COX, WILLIAM H.....	508	East Merrimack st.....	painter
CRAIG, JOSEPH .....	30	Congress av .....	B. & M. R. R.
CREVIER, CHARLES .....	537	Fletcher st .....	blacksmith
CRIMMIN, PATRICK.....	176	Adams st.....	clerk
CROMPTON, JOHN .....	98	Fremont st .....	printer
CROSBY, FREDERICK H.....	111	Moore st .....	mason
CROSBY, JASON W .....	81	Smith st .....	overseer
CROSS, FRANK R .....	182	Mt. Vernon st .....	clerk
CROWLEY, CORNELIUS F .....	159	Cross st .....	laborer
CROWLEY, DENNIS J.....	112	Walker st.....	clerk
CROWLEY, PATRICK H.....	38	Suffolk st.....	laborer
CROWLEY, ROBERT E.....	115	Fort Hill av.....	agent
CROWN, GEORGE W.....	108	Livingston av.....	machinist
CUFF, JOHN H.....	18	Agawam st.....	shuttle maker
CRYSLER, H. STANLEY.....	20	Phillips st .....	architect
CUMMINGS, FRANK G.....	187	Varnum av.....	boxmaker
CUMMINGS, LAWRENCE.....	29	Huntington st.....	reporter
CURRY, JAMES.....	105	Tremont st.....	steam fitter
CURTICE, BYRON F.....	181	West London st.....	car inspector
CURTIN, JOHN J.....	122	Chapel st.....	clerk
CURTIS, CHARLES E.....	433	Central st.....	machinist
CUSHING, JOSEPH L.....	32	Mt. Washington st.....	manufacturer
CUSTY, PATRICK J.....	96	Mt. Washington st.....	tinsmith
CUTLER, ARTHUR S.....	124	Dunbar av.....	architect
CUTLER, JOHN S.....	772	Varnum av.....	barber

## D

DAIGNEAULT, OSCAR J.....	466	Merrimack st.....	hairdresser
DANAHY, FRANK J.....	33	State st.....	plasterer
DALEY, PETER.....	203	Broadway .....	operative
DALEY, WILLIAM.....	11	Mill st.....	barber

# LIST OF JURORS.

11

## D

DALLAGHER, JOSEPH W.....	69	West Third st.....	laborer
DALY, FRANK W. S.....	217	Westford st.....	clerk
DANA, CLARENCE W.....	459	Dutton st.....	machinist
DANA, HARRY C.....	365	Worthen st.....	machinist
DANAHY, WILLIAM H.....	347	Market st.....	clerk
DAILEY, JOHN.....	159	Chapel st.....	operative
DANAHY, JOHN J.....	22	Crowley st.....	tinsmith
DANE, GEORGE F.....	53	Oakland st.....	B. & M. R. R.
DANIELS, JOHN S.....	558	Chelmsford st.....	farmer
DARLING, CARROLL J.....	395	Middlesex st.....	clerk
DAVID, ALBERT W.....	234	Gibson st.....	clerk
DAWSON, JAMES.....	84	South Whipple st.....	paper hanger
DAWSON, JOSEPH F.....	7	Pollard av.....	plumber
DEAN, SIMON.....	516	Lawrence st.....	clerk
DEARBORN, CHARLES O.....	31	Barclay st.....	clerk
DEARTH, ALBERT E.....	12	Broadway .....	machinist
DELISLE, ELIE.....	150	Pawtucket st.....	furniture dealer
DELMAGE, WILLIAM A.....	48	Fourth st.....	janitor
DENAULT, HUBERT.....	749	Merrimack st.....	pianos
DENNETT, ALVANUS M.....	57	Fourth st.....	pawnbroker
DENNING, LEVI.....	171	Mt. Hope st.....	grocer
DENNIS, JOHN N.....	275	Summer st.....	manufacturer
DESMARAIS, PHILIP.....	466	Fletcher st.....	clerk
DEVINE, PHILIP.....	61	Chapel st.....	moulder
DEVLIN, JAMES P.....	43	Willow st.....	printer
DEVOLL, ANDREW J.....	53	Thirteenth st.....	salesman
DEVOLL, CABOT.....	53	Thirteenth st.....	clerk
DEWAR, DAVID W.....	364	Beacon st.....	cashier
DEXTER, OREL K.....	20	Starbird st.....	blacksmith
DEXTRA, JOSEPH.....	534	Merrimack st.....	barber
DICKERMAN, WILLIAM O.....	74	Bellevue st.....	clerk
DICKINSON, WATSON A.....	190	Branch st.....	manufacturer
DICKSON, DAVID.....	142	Smith st.....	tea dealer

## LIST OF JURORS.

**D**

DILWORTH, DENNIS.....	44	Merrill st.....	overseer
DOHERTY, HENRY P.....	93	Adams st.....	painter
DOHERTY, JOHN J.....	20	Mill st.....	mattress maker
DOLE, ALBERT F.....	595	Westford st.....	slater
DONAHUE, CORNELIUS F.....	123	Crosby st.....	clerk
DONOHUE, CHARLES T.....	41	Chapel st.....	clerk
DONOHUE, DENNIS.....	16	Merrill st.....	machinist
DONOHUE, MICHAEL F.....	367	Worthen st.....	machinist
DONOHUE, JOHN.....	3 rear 104	Lawrence st.....	spinner
DONOVAN, WILLIAM H.....	26	Madison st.....	dealer
DOUGLASS, HARRY P.....	35	Hurd st.....	overseer
DOWD, MICHAEL J.....	27	Harrison st.....	insurance
DOYLE, DANIEL P.....	213	West Manchester st.....	laborer
DOYLE, JAMES H.....	101	Chelmsford st.....	dealer
DOZOIS, HILAIRE.....	363	Dutton st.....	overseer
DRAPEAU, WILLIAM.....	3	Hancock av.....	carpenter
DREWETT, SIDNEY.....	72	Twelfth st.....	trunk dealer
DRINAN, GEORGE.....	17	Burt st.....	clerk
DUANE, MICHAEL.....	146	Chapel st.....	shoe dealer
DUBUQUE, GEORGE H.....	65	Branch st.....	clerk
DUGDALE, JAMES P.....	48	Marlborough st.....	tobacconist
DUMAS, ERNEST G.....	55	Huntington st.....	bookbinder
DUNHAM, JAMES H.....	235	Stackpole st.....	butcher
DUNLAP, HARRY.....	20	Nesmith st.....	merchant
DUNN, JAMES J.....	508	Gorham st.....	stone cutter
DUPONT, EXADIUS.....	80	Cabot st.....	gentleman
DUTTON, WALTER L.....	11	Third av.....	foreman
DWYER, JOHN F.....	4	Oak st.....	painter
DWYER, WILLIAM E.....	154	Charles st.....	barber

**E**

EAMES, MELVIN.....	60	West Sixth st.....	pattern maker
EASTMAN, HENRY F.....	327	East Merrimack st.....	draughtsman
EASTMAN, RAYMOND W.....	96	West st.....	operative



# LIST OF JURORS.

13

## E

EATON, CHARLES W.....	108	Myrtle st.....	broker
EATON, DANIEL A.....	107	Myrtle st.....	insurance clerk
EATON, GEORGE T.....	26	Lane st.....	engineer
EDGELL, FRED N.....	117	Andover st.....	collector
EDWARDS, ARTHUR S.....	64	Grand st.....	clerk
EDWARDS, CHARLES F.....	196	Hale st.....	designer
EGAN, MICHAEL J.....	53	Lilley av.....	merchant
ELLINGWOOD, EDWARD.....	56	Huntington st.....	druggist
ELLINGWOOD, GEORGE B.....	240	East Merrimack st.....	clerk
ELLIOTT, HERBERT E.....	40	Barclay st.....	manufacturer
EMSLEY, GEORGE.....	20	Weed st.....	comb maker
ENRIGHT, CORNELIUS F.....	11	Cedar st.....	painter
EVANS, FRED F.....	1354	Gorham st.....	grocer
EVANS, FREDERICK.....	9	Blossom st.....	marble cutter
EVANS, GEORGE C.....	34	Thirteenth st....	hay and grain dealer
EVANS, LEONARD, JR.....	30	Parkview av.....	mechanic

## F

FAGAN, FRANCIS M.....	18	Newhall st.....	clerk
FAGAN, JAMES M.....	18	Newhall st.....	fruit dealer
FAGAN, JOHN H.....	18	Newhall st.....	janitor
FAIRBURN, GEORGE.....	173	Stackpole st.....	provisions
FALLON, FRANK J.....	11	Little st.....	machinist
FARLEY, GEORGE A.....	142	Gorham st.....	cigar manufacturer
FARLEY, HARRY P.....	119	Pleasant st.....	clerk
FARLEY, HUGH F.....	202	Concord st.....	clerk
FARLEY, JOSEPH.....	52	Fay st.....	barber
FARNUM, GEORGE W.....	306	School st.....	superintendent
FARRELL, JOHN J.....	624	Market st.....	machinist
FARRINGTON, WILLIS.....	234	Nesmith st.....	manufacturer
FAULKNER, FRANCIS E.....	42	Cross st.....	clerk
FAULKNER, JOHN A.....	32	Belmont av.....	manufacturer
FAVREAU, WILLIAM A.....	784	Merrimack st.....	clerk



## LIST OF JURORS.

## F

FAY, EDGAR G.....	371	East Merrimack st.....	clerk
FAY, FREDERICK T.....	371	East Merrimack st.....	druggist
FAY, HENRY J.....	70	Lawrence st.....	salesman
FAY, JOSEPH F.....	1	Mt. Pleasant st.....	farmer
FAY, PAUL F.....	43	Wannalancit st.....	machinist
FELL, SAMUEL.....	68	Bartlett st.....	section hand
FELLOWS, LUCIAN B.....	8	Coral st.....	painter
FELS, AUGUST.....	989	Lakeview av.....	manufacturer
FELTON, HENRY F.....	386	Andover st.....	organist
FENDERSON, CHARLES H.....	429	Worthen st.....	machinist
FENNELL, NICHOLAS J.....	178	West London st.....	barber
FERRIN, GEORGE W.....	896	Middlesex st.....	operative
FIELD, ALBERT L.....	1057	Gorham st.....	druggist
FIELD, CHARLES W.....	509	Beacon st.....	draughtsman
FIELD, JAMES F.....	137	Stackpole st.....	printer
FIFE, JAMES.....	46	Merrill st.....	machinist
FIFIELD, GEORGE W.....	1180	Middlesex st.....	manufacturer
FINNEGAN, JAMES W.....	116	Prince st.....	laborer
FINNERTY, HUGH.....	191	Fayette st.....	laborer
FINNERTY, PATRICK J.....	73	Church st.....	laborer
FISH, CHARLES T.....	26	Dover st.....	agent
FITZGERALD, PATRICK.....	31	Marion st.....	clerk
FITZGIBBON, PATRICK.....	503	Gorham st.....	shoemaker
FLANAGAN, FRANK P.....	22	Westford st.....	clerk
FLANDERS, CHARLES H.....	8	Osgood st.....	foreman
FLANNAGAN, JOHN J.....	178	Fayette st.....	operative
FLEMING, SAMUEL.....	75	Hampshire st.....	janitor
FLEMINGS, FREDERICK J.....	393	High st.....	paper dealer
FLEMINGS, JAMES F.....	35	Oak st.....	clerk
FLETCHER, BENJAMIN.....	129	Church st.....	agent
FLETCHER, CHARLES G.....	457	School st.....	laborer
FLETCHER, CHARLES W.....	79	High st.....	clerk
FLETCHER, MILES J.....	129	Church st.....	student

# LIST OF JURORS.

15

## F

FLETCHER, SILAS W.....	120	Agawam st.....	manufacturer
FLETCHER, WILLIAM B.....	164	Smith st.....	clerk
FLOOD, JAMES H.....	216	High st.....	clerk
FLOOD, TERRENCE E.....	61	Pleasant st.....	operative
FLOWER, ALBERT G.....	134	Sixth st.....	carder
FLYNN, EDMUND.....	96	Crosby st.....	butcher
FLYNN, EUGENE F.....	32	Cady st.....	finisher
FOLSOM, FRED P.....	154	Shaw st.....	clerk
FOLSOM, HENRY W.....	77	Mt Vernon st.....	overseer
FORREST, CHARLES M.....	30	Tyler Park.....	lumber dealer
FOSTER, BENJAMIN F.....	68	C st.....	second hand
FOSTER, FRED A.....	92	Bellevue st.....	overseer
FOSTER, HIRAM A.....	209	Cabot st.....	machinist
FOSTER, WILLIAM.....	9	Wilsondale pl.....	machinist
FOX, WARREN.....	209	Summer st.....	gentleman
FRAWLEY, HENRY J.....	697	Middlesex st.....	knitter
FRECHETTE, WILFRED.....	211	Aiken st.....	merchant
FREEMAN, BENJAMIN F.....		High Street Engine House...	lighting dept.
FREEMAN, CHARLES T.....	648	Broadway .....	grocer
FREEMAN, JAMES E.....	83	Andrews st.....	grocer
FRENCH, ALBERT F.....	213	Parkview av.....	clerk
FROST, CHANNING A.....	1677	Middlesex st.....	dealer
FROST, CHARLES H.....	26	Central st.....	jeweler
FRYE, AUSTIN A.....	105	Eighteenth st.....	clerk
FRYE, GEORGE H.....	36	Second st.....	agent
FULLER, JOSEPH F.....	258	East Merrimack st.....	agent
FULLER, WILLIAM H.....	408	Pine st.....	contractor
FULTON, ROBERT S.....	27	Myrtle st.....	clerk
FURY, WILLIAM.....	126	Adams st.....	operative

## G

GAHAGAN, EDWARD W.....	205	Church st.....	clerk
GALE, CHARLES A.....	23	Jenness st.....	clerk
GALLAGHER, CHARLES A.....	58	Elm st.....	operative

## LIST OF JURORS.

## C

GALLAGHER, CHARLES J.....	110 Pleasant st.....	druggist
GALLAGHER, JOHN J.....	58 Third st.....	operative
GALLAGHER, PETER.....	rear 85 Lakeview av.....	hair dresser
GALLAGHER, THOMAS.....	40 Wamesit st.....	painter
GALLAGHER, WILLIAM H.....	48 Exeter st.....	insurance agent
GARDNER, EVERETT M.....	198 Holyrood av.....	architect
GARDNER, MILES G.....	497 School st.....	clerk
GARMON, JOSEPH A.....	76 Nineteenth st.....	J. C. Ayer Co.
GARVEY, MICHAEL J.....	203 Broadway.....	liquor dealer
GATES, HENRY K.....	400 East Merrimack st.....	coal dealer
GATES, ROYAL W.....	73 Gates st.....	belt manufacturer
GAUTHIER, AIME.....	503 Fletcher st.....	dealer
GERRY, EDGAR A.....	27 Humphrey st.....	express messenger
GIBSON, THOMAS.....	22 Lane st.....	operative
GILL, HOMER J.....	rear 176 Adams st.....	clerk
GILLESPIE, JOHN T.....	110 Durant st.....	clerk
GILLIGAN, JAMES.....	14 Kinsman st.....	currier
GILLMORE, WILLIAM H.....	3-32 Chelmsford st.....	shoe cutter
GILLOGLEY, OWEN.....	27 Walnut st.....	laborer
GILLON, HUGH F.....	84 Bartlett st.....	editor
GILLOW, JOSEPH S.....	258 Wentworth av.....	contractor
GILMORE, WILLIAM.....	39 Walnut st.....	clerk
GINTY, PHILIP.....	1011 Central st.....	slater
GIROUX, CHARLES.....	12 Coburn st.....	clerk
GLIDDEN, CHARLES J.....	1131 Middlesex st.....	telephone
GODDARD, CHARLES R.....	30 Marlborough st.....	paymaster
GOLDBERG, BERNARD.....	1 Elm pl.....	spinner
GOOCH, MELVIN G.....	223 School st.....	carpenter
GOODALL, SAMUEL.....	417 Dutton st.....	watchman
GOODELL, HARLAN P.....	14 Highland st.....	dealer
GOODWIN, CHESTER S.....	15 Bleachery st.....	finisher
GOOKIN, JAMES.....	300 Concord st.....	furniture dealer
GORDON, JOHN G.....	545 Middlesex st.....	clerk

# LIST OF JURORS.

17

## G

GORMAN, JAMES E.....	412	Gorham st.....	boots and shoes
GORMAN, MICHAEL.....	42	Hudson st.....	operative
GORMLEY, EDWARD F.....	31	Washington st.....	clerk
GORMLEY, JOSEPH H.....	11	Lyon st.....	clerk
GOULD, SUMNER S.....	112	Fremont st.....	manager
GOULDING, WILLIAM H.....	123	Walker st.....	slater
GOULET, JOSEPH W.....	93	Lilley av.....	baker
GOWARD, EDWARD T.....	274	Appleton st.....	gentleman
GRADY, GEORGE W.....	14	Wamesit st.....	clerk
GRADY, JAMES.....	398	Lincoln st.....	carpenter
GRADY, JOHN J.....	492	Market st.....	clerk
GRANT, ALBERT F.....	244	Gibson st.....	dry goods
GRANT, ALFRED T.....	34	Willie st.....	machinist
GRAY, ALANSON.....	99	South Walker st.....	provision dealer
GRAY, ANDREW A.....	19	Tolman av.....	clerk
GRAY, ARTHUR L.....	39	Burt st.....	agent
GRAY, CHARLES F.....	26	Smith av.....	jeweler
GRAY, FRANK.....	76	Royal st.....	clerk
GRAY, HARRY.....	93	Dover st.....	grocer
GRAY, JAMES J.....	19	Tolman av.....	salesman
GRAY, JOHN J.....	10	Kinsman st.....	real estate
GRAY, PETER B.....	71	Whipple st.....	carpenter
GREATHEAD, SAMUEL A.....	519	Broadway .....	clerk
GREEN, ALBERT H.....	157	Dartmouth st.....	draughtsman
GREEN, JOHN J.....	166	Smith st.....	dealer
GREEN, LORIN.....	179	Warwick st.....	railroad
GREENE, HARVEY B.....	301	Foster st.....	florist
GREENWOOD, OTHELLO O.....	180	Hale st.....	dealer
GREGG, GEORGE V.....	64	Central st.....	tailor
GREGG, JAMES W.....	224	First st.....	secretary
GREGG, JOHN.....	112	Jackson st.....	overseer
GREGOIRE, ALBERT.....	496	Moody st.....	musician
GREIG, ALEXANDER.....	52	Cambridge st.....	carpenter
GREGOIRE, DAVID S.....	48	East Pine st.....	baker

## LIST OF JURORS

**G**

GREGOIRE, PIERRE L.....	496	Moody st.....	musician
GRIFFIN, JOHN .....	161	Merrimack corp.....	laborer
GRIFFIN, JOSEPH T.....	62	Middlesex st.....	cigar dealer
GRIFFIN, JOSEPH W.....	549	Westford st.....	gentleman
GRIMARD, ARTHUR J.....	1	Gage st.....	clerk
GROVER, FRED H.....	123	Third st.....	surveyor
GROVER, HERBERT E.....	128	Third st.....	barber
GUILD, ALBERT S.....	18	Arlington st.....	broker
GUINARD, EUGENE J.....	64	Butterfield st.....	clerk
GUMB, HARRY M.....	28	Anderson st.....	stone cutter

**H**

HALL, CHARLES O.....	526	Moody st.....	provisions
HALL, THALLES P.....	149	Stackpole st.....	real estate
HALLORAN, DANIEL C.....	546	East Merrimack st.....	gardener
HALLOWELL, CHARLES E.....	743	Bridge st.....	machinist
HAM, HIRAM O.....	184	School st.....	carpenter
HAMEL, ALFRED.....	767	Merrimack st.....	machinist
HAMILTON, AMASA S.....	38	Race st.....	express
HAMILTON, CHARLES A.....	46	Albion st.....	cabinet maker
HANSBURY, JAMES W.....	29	Hastings st.....	machinist
HANSON, HORACE R.....	336	Worthen st.....	machinist
HANSON, JAMES S.....	584	Westford st.....	trader
HAPGOOD, EDGAR.....	221	High st.....	manufacturer
HAPGOOD, FRANK W.....	538	Moody st.....	machinist
HARDEN, ALBERT K.....	11	Read st.....	clerk
HARDER, ELMER E.....	135	Liberty st.....	janitor
HARDY, WILLIAM.....	131	Colburn st.....	boarding house
HARLEY, PHILIP.....	46	Crosby st.....	motorman
HARMON, ERNEST W.....	213	Shaw st.....	clerk
HARRIGAN, WILLIAM H.....	580	School st.....	clerk
HARRINGTON, JOHN J.....	61	Worthen st.....	operative
HARRIS, ARTHUR W.....	26	Highland st.....	merchant
HARRIS, EUGENE A.....	659	School st.....	real estate
HARRIS, FRED E.....	4	Wright st.....	engineer

# LIST OF JURORS.

19

## H

HARRISON, HARRY.....	24	Arthur st.....	machinist
HART, BOWERS F.....	79	Fremont st.....	architect
HART, DANIEL J.....	84	School st.....	baker
HART, WILLIAM R.....	16	Varney st.....	clerk
HARTWELL, CHARLES C.....	190	A st.....	clerk
HARTWELL, GEORGE W.....	159	Sayles st.....	asst. supt. streets
HASTINGS, JAMES S.....	20	Barclay st.....	decorator
HATCH, ARTHUR E.....	505	Westford st.....	foreman
HATCH, HENRY.....	65	Fay st.....	grocer
HAWES, WILLIAM H.....	59	Canton st.....	merchant
HAWKES, FRANK B.....	26	Eleventh st.....	clerk
HAWKES, LEVI W.....	228	Wentworth av.....	furniture dealer
HAWORTH, LLOYD B.....	43	Columbus av.....	student
HAYES, JAMES J. ....	85	French st.....	barber
HAYES, JEREMIAH J.....	63	Walker st.....	operative
HAYNES, FRANK H.....	430	Wilder st.....	provision dealer
HEMMINGWAY, JOSEPH H.....	139	Methuen st.....	gentleman
HENDRICKS, JOHN T.....	296	Tanner st.....	laborer
HENNESSY, JOSEPH.....	44	Common st.....	machinist
HENRY, BENJAMIN F.....	148	First st.....	reporter
HERRICK, JOSEPH S.....	811	Central st.....	dealer
HICKEY, CORNELIUS L.....	20	Kinsman st.....	spinner
HIGGINS, DANIEL J.....	132	Church st.....	operative
HIGGINS, PATRICK.....	872	Central st.....	machinist
HIGGINS, TERRENCE F.....	245	Concord st.....	machinist
HIGGINS, WESLEY R.....	82	Read st.....	painter
HILL, EDGAR M.....	16	Cottage st.....	reporter
HILL, GEORGE B.....	305	Nesmith st.....	insurance agent
HILL, JAMES E.....	279	Thorndike st.....	inspector
HILL, WILLIAM N.....	242	Appleton st.....	machinist
HILLIARD, ASA B.....	39	Royal st.....	foreman
HILLIARD, WILLIAM B.....	589	School st.....	machinist
HOBBS, ALEXANDER F.....	23	Merrimack corp.....	superintendent
HOBSON, CHARLES H.....	26	Hanks st.....	manager

## LIST OF JURORS.

## H

HODGES, FRANK H.....	214 Gibson st.....	grocer
HOGAN, DANIEL E.....	30 Fort Hill av .....	bookkeeper
HOLDEN, GEORGE B.....	363 Walker st....	assistant superintendent
HOLGATE, BENJAMIN.....	46 Hamilton corp.....	clerk
HOLGATE, SAMUEL.....	6 Hamilton corp.....	second hand
HOLLAND, WALTER H.....	32 Pine Hill st.....	mattress maker
HOLT, WILLIS S.....	8 Hale st.....	clerk
HOOLE, HENRY.....	66 Bartlett st.....	machinist
HOPE, ARTHUR L.....	10 Belmont st.....	machinist
HORNE, FRED.....	150 Westford st.....	coal dealer
HOSMER, SAMUEL.....	42 Hamilton corp.....	overseer
HOWARD, FRANK H.....	17 Abbott st.....	carpenter
HOWARD, JAMES.....	19 Ellsworth st.....	folder
HOWE, ALFRED J.....	4 Eighth av.....	real estate
HOWE, EDWARD S.....	915 Varnum av.....	farmer
HOWE, HARRY W. J.....	4 Eighth av.....	real estate
HOWE, WALTER H.....	315 Summer st.....	real estate
HUGHES, EDWARD.....	50 Chestnut st.....	laborer
HULL, GEORGE S.....	583 Central st.....	manufacturer
HUMPHRISS, FREDERICK G....	18 Manchester st.....	weaver
HUNT, LEONARD D.....	234 Cabot st.....	overseer
HUNT, WILLIAM F.....	25 Wamesit st.....	loom fixer
HUNTER, JAMES F.....	9 Harrison st.....	barber
HURD, FRANK W.....	19 Harrison st.....	treasurer
HUSBAND, THOMAS H.....	2 Davis sq.....	switchman
HUTCHINSON, HENRY C.....	184 School st.....	pattern maker
HYDE, DANIEL.....	790 Broadway .....	machinist
HYDE, MARTIN.....	5 Floyd st.....	sash maker
HYLAN, EDWIN J.....	28 Nesmith st.....	manufacturer
HYLAN, EUGENE S.....	28 Nesmith st.....	manufacturer

ILSLEY, PHILIP H.....	513 Westford st.....	trade
IRELAND, WILLARD F.....	775 Broadway .....	machinist



# LIST OF JURORS.

21

## I

IRISH, WILL F.....	177	Fort Hill av.....	salesman
IRVING, WILLIAM J.....	rear 28	Walnut st.....	weaver
IRWIN, JOHN M.....	83	Pine st.....	wholesale confectioner

## J

JACOBS, HENRY H.....	119	Fulton st.....	carpenter
JACOBS, HERBERT M.....	176	Westford st.....	carpenter
JACQUES, GEORGE D., JR.....	55	Rock st.....	machinist
JANVRIN, JOSEPH A.....	51	Fifth st.....	clerk
JAQUES, FRANK M.....	80	Eighteenth st.....	contractor
JAQUES, SILAS.....	120	Walker st.....	clerk
JENNESS, FRED W.....	710	Chelmsford st.....	dealer
JENNINGS, CHESTER S.....	239	Stevens st.....	draughtsman
JENNISON, GEORGE H.....	45	Kirk st.....	dentist
JENSEN, OTTO.....	384	Walker st.....	moulder
JOHNSON, COOLIDGE R.....	1255	Middlesex st.....	watchman
JOHNSON, FRANCIS.....	494	Lawrence st.....	dealer
JOHNSON, FRANK.....	102	Dummer st.....	decorator
JOHNSON, FRANKLIN E.....	243	Westford st.....	clerk
JOHNSON, HENRY J.....	328	Suffolk st.....	clerk
JOHNSON, ISAAC G.....	317	Chelmsford st.....	carpenter
JOHNSON, MICHAEL J.....	328	Suffolk st.....	musician
JOHNSON, WILLIAM J.....	47	Kirk st.....	milliner
JONES, EDWARD A.....	342	Walker st.....	machinist
JORDAN, J. WILSON.....	1	Blanchard ct.....	laborer
JOY, CALVIN L.....	403	Bridge st.....	carpenter

## K

KANE, PATRICK F.....	37	Elm st.....	grocer
KEEGAN, THOMAS M.....	20	Ellsworth st.....	janitor
KELLEY, EDWARD W.....	129	Moore st.....	draughtsman
KELLEY, GEORGE A.....	151	Branch st.....	clerk



## LIST OF JURORS.

## K

KELLEY, HENRY F.....	7	Richmond st.....	machinist
KELLEY, JOHN F.....		Columbia st.....	carpenter
KELLEY, PATRICK F.....	176	Andover st.....	clerk
KELLEY, WILLIAM A.....	799	Princeton st.....	merchant
KENDALL, CHARLES A.....	12	Simpson pl.....	dealer
KENNEDY, DANIEL.....	70	Cosgrove st.....	mattress maker
KENNEDY, JAMES J.....	31	Marion st.....	hairdresser
KENNEDY, WILLIAM R.....	114	Warwick st.....	electric trimmer
KENNESON, HARRY A.....	70	Rock st.....	blacksmith
KENNEY, ROBERT E.....	1	West View st.....	clerk
KERR, NATHANIEL B.....	111	Stevens st.....	mill agent
KEYES, HENRY F.....	372	Broadway .....	gentleman
KEYES, HENRY J.....	294	Riverside st.....	clerk
KEYES, JULIAN B.....	102	Third st.....	bank teller
KIDDER, AMASA N.....	24	Hastings st.....	stone cutter
KIDDER, CHARLES F.....	1	Spaulding st.....	clerk
KIERNAN, PATRICK.....	35	Ludlam st.....	loom fixer
KILBRIDE, PATRICK.....	14	Stanley st.....	provision dealer
KILLPARTRICK, SAMUEL W....	1057	Middlesex st.....	fruit dealer
KIMBALL, LEROY S.....	50	Kirk st.....	roll coverer
KING, FRANCIS T.....	69	Chestnut st.....	clerk
KING, JOHN C.....	69	Chestnut st.....	clerk
KINGSBURY, ALPHEUS R.....	90	Billings st.....	blacksmith
KINNEY, EDWIN E.....	108	Westford st.....	dentist
KIRBY, CHARLES P.....	16	Walnut st.....	machinist
KIRKEBY, MARTIN L.....	84	Parker st.....	clerk
KITTREDGE, ABNER L.....	101	Myrtle st.....	merchant
KITTREDGE, LUTHER F.....	30	Burlington av.....	stone contractor
KNAPP, FRED L.....	153	Westford st.....	manufacturer
KNOWLTON, HARRY W.....	95	Harvard st.....	clerk

## L

LABATTE, JOSEPH.....	72	Cabot st.....	tailor
LACOUTURE, JOSEPH S.....	51	Rock st.....	clerk

# LIST OF JURORS.

23

## L

LAMOTHE, LOUIS P.....	51	Mammoth road.....	baker
LANDERS, WILLIAM H.....	397	Dutton st .....	overseer
LANE, STEPHEN H.....	4	Pine st.....	carpenter
LANGEVIN, FELIX D.....	34	Pine Hill st.....	machinist
LANOUE, EMERY.....	230	Riverside st.....	carpenter
LARRABEE, GEORGE C.....	15	Corner st.....	clerk
LATOUR, PETER.....	26	Crawford st.....	baker
LAVERY, JAMES A.....	52	Butterfield st.....	baker
LAVOIE, ARTHUR.....	2	Racine pl.....	grocer
LAWRENCE, ABBOTT.....	113	Fort Hill av.....	optician
LAWRENCE, HARRY S.....	99	Howard st.....	clerk
LEARY, DENNIS J.....		American House.....	hotel
LEARY, JOHN F.....	410	Adams st.....	clerk
LEARY, SANFORD P .....	54	Lincoln st.....	carpenter
LEAVITT, GEORGE E.....	37	Dover st.....	foreman
LEBLANC, ALFRED.....	89	Mammoth road.....	grocer
LEE, BERNARD F.....	13	Willie av.....	laborer
LEE, MICHAEL A.....	8	Livermore st.....	carpenter
LEE, THOMAS C.....	445	High st.....	insurance
LEITH, NORMAN.....	35	London st.....	blacksmith
LEITH, WILLIAM H.....	239	East Merrimack st.....	grocer
LENNON, THOMAS E.....	86	Mt. Washington st.....	liquor dealer
LEWIS, EDWARD J.....	40	Abbott st.....	machinist
LIBBEE, GEORGE F.....	58	Wannalancit st.....	trader
LIBBY, CHARLES F.....	69	Robbins st.....	manager
LIBBY, EDWARD C.....	399	Stevens st.....	clerk
LIBBY, MARTIN V. B.....	331	Walker st.....	blacksmith
LIBBY, OLIVER C.....	399	Stevens st.....	printer
LIDDELL, ANDREW.....	25	Twelfth st.....	collector
LISTON, JAMES.....	368	Concord st.....	machinist
LITTLE, MOSES.....	77	Mansur st.....	merchant
LIVINGSTON, CORNELIUS S.....	208	Branch st.....	clerk
LIVINGSTON, EPHRAIM D.....	287	Westford st.....	printer

**L**

LIVINGSTON, WILLIAM.....	77	Livingston av.....	clerk
LOFGREN, HALVAR.....	25	Crowley st.....	foreman
LOVE, JOSEPH.....	17	McKinley av.....	clerk
LOVERING, FRANK A.....	247	Appleton st.....	drug clerk
LUNDBERG, FRANK G.....	44	Fay st.....	laundryman
LUNT, JASON.....	102	Branch st.....	machinist
LUSSIER, WILLIAM O.....	87	Fourth av.....	blacksmith
LYMAN, EDWARD.....	431	Wilder st.....	engineer
LYMAN, JOHN A.....	98	Hastings st.....	clerk
LYNCH, THOMAS F.....	19	James st.....	steam fitter
LYNCH, THOMAS J.....	93	Andrews st.....	laborer
LYNCH, THOMAS J.....	31	Crowley st.....	clerk

**M**

MADIGAN, MICHAEL A.....	23	Bassett st.....	marble polisher
MAGEE, JOHN J.....	359	Lawrence st.....	grocer
MAGUIRE, HENRY J., JR.....	91	Hastings st.....	clerk
MAGUIRE, THOMAS F.....	22	Varney st.....	advertising agent
MAHER, MICHAEL J.....	31	Walnut st.....	clerk
MAHONEY, JOHN P.....	41	Butterfield st.....	assessor
MAKER, WILLIAM P.....	385	Worthen st.....	machinist
MANCHESTERS, JOHN.....	139	Third st.....	janitor
MANSELL, L. ARTHUR.....	31	Sawtelle pl.....	laundry
MARDEN, PHILIP S.....	84	Fairmount st.....	editor
MARKHAM, MICHAEL J.....	834	Central st.....	dealer
MARSHALL, ARTHUR H.....	538	Varnum av.....	farmer
MARSHALL, JAMES G.....	1067	Gorham st.....	paymaster
MARTEL, PHILIP.....	30	Tremont corp.....	operative
MARTIN, EDWARD F.....	543	Gorham st.....	grocer
MARTIN, WILLIAM F.....	26	North st.....	tailor
MAYNARD, MYRON A.....	17	Otis st.....	overseer
McALEER, MICHAEL.....	29	Chestnut st.....	operative
McARDELL, EDWARD.....	50	West st.....	machinist

# LIST OF JURORS.

25

## M

McCAFFREY, ANDREW.....	18 Pond st.....	laborer
McCAFFREY, FRANCIS E.....	6 rear 230 Fayette st.....	operative
McCAFFREY, THOMAS.....	196 Fayette st.....	operative
McCAFFREY, THOMAS J.....	149 Concord st.....	painter
McCANN, ARTHUR.....	9 New st.....	shoe dealer
McCANN, JAMES.....	rear 304 Adams st.....	mule spinner
McCANN, PATRICK.....	412 Lincoln st.....	laborer
McCARTHY, JOHN J.....	244 Broadway.....	clerk
McCARTY, JAMES D.....	34 D st.....	laborer
McCARTY, JOHN J.....	624 Central st.....	clerk
McCLUSKY, WILLIAM J.....	40 Union st.....	student
McCORMICK, JOHN E.....	108 Livingston av.....	clerk
McCUE, MICHAEL H.....	781 Broadway.....	water works
McCULLOUGH, JOHN.....	33 Chestnut st.....	grocer
McDANIELS, WALTER H.....	437 East Merrimack st.....	manufacturer
McDONALD, JOSEPH A.....	402 Mammoth road.....	merchant
McDONALD, RUSSELL.....	200 Baldwin st.....	grocer
McDOUGALL, JAMES.....	1017 Central st.....	machinist
McELHOLM, DANIEL B.....	171 Andover st.....	weaver
McEVOY, PATRICK.....	17 Floyd st.....	painter
McGARAHAN, JAMES.....	78 Appleton st.....	machinist
McGAUVAN, EDWARD K.....	158 Mt. Vernon st.....	merchant
McGAUVAN, WILLIAM H.....	158 Mt. Vernon st.....	clerk
McGILLEY, PATRICK.....	112 Concord st.....	wool sorter
McGOVERN, JOHN.....	31 Pearl st.....	driver
McGRATH, JOSEPH H.....	88 Coburn st.....	janitor
McGUINNESS, JAMES F.....	119 Agawam st.....	plumber
McINTIRE, GEORGE E.....	605 Wilder st.....	machinist
McINTYRE, WILLIAM G.....	19 Lombard st.....	clerk
McKENNA, JOHN A.....	26 Keene st.....	laborer
McKENZIE, DONALD W.....	70 Livingston av.....	clerk
McKEON, JAMES E.....	184 Chelmsford st.....	clerk
McLAUGHLIN, FRANK A.....	30 Pleasant st.....	plumber
McLAUGHLIN, JOHN F.....	513 Lawrence st.....	steam fitter

## LIST OF JURORS.

## M

McLAUGHLIN, JOHN T.....	73 Chestnut st.....	confectioner
McMAHON, FRANK.....	539 Chelmsford st.....	machinist
McMAHON, JOSEPH F.....	136 South st.....	plumber
McMAHON, THADY.....	17 Watson st.....	barber
McNABB, JOHN H.....	108 Pleasant st.....	laundry
McNALLY, JAMES.....	261 Thorndike st.....	blacksmith
McNALLY, JAMES R.....	261 Thorndike st.....	conductor
McNULTY, PHILIP.....	9 Lyon st.....	clerk
McOSKER, HUGH C.....	209 Stackpole st.....	wall paper
McOSKER, JOHN F.....	12 Livermore st.....	clerk
McPARLAND, JOHN.....	13 Wamesit st.....	spinner
McQUADE, ARTHUR.....	65 Pleasant st.....	foundry foreman
McQUADE, JOHN J.....	40 Lyon st.....	clerk
McQUADE, MICHAEL.....	65 Pleasant st.....	overseer
McVEY, DANIEL F.....	135 Gorham st.....	plumber
MEAD, ASA W.....	3 Wachusett st.....	machinist
MEADE, WILLIAM V.....	77 Linden st.....	clerk
MEALEY, JOHN R.....	172 Howard st.....	stencil cutter
MEEHAN, JOHN T.....	215 Worthen st.....	clerk
MELLO, MANUEL P.....	33 Powell st.....	hairdresser
MELOY, WILLIAM J.....	30 Fort Hill av.....	stenographer
MERRILL, FRANK M.....	156 Tenth st.....	dealer
MEYER, WOLF.....	305 Middlesex st.....	tailor
MILLER, EDWARD H.....	12 Gold st.....	operative
MILLER, GEORGE W.....	75 Howard st.....	railroad
MILLER, HENRY.....	38 Sixth st.....	real estate
MILLER, JOSEPH.....	32 Sheldon st.....	clerk
MILLER, JOSEPH H.....	284 Fletcher st.....	clerk
MISKELLA, JAMES F.....	35 Mead st.....	clerk
MITCHELL, CHARLES F.....	81 Dummer st.....	clerk
MITCHELL, JAMES W.....	79 Mt. Washington st.....	carpenter
MOLLEUR, EDWARD J.....	717 School st.....	clerk
MOLLOY, ANDREW.....	92 Mt. Hope st.....	beamer
MONAHAN, PATRICK R.....	38 West Fifth st.....	teamster

# LIST OF JURORS.

27

## M

MONGRAIN, WILBROD.....	23	Sarah av.....	blacksmith
MOONEY, PATRICK H.....	203	Moore st.....	plumber
MOORE, PATRICK H.....	900	Gorham st.....	gentleman
MOORE, WALTER T.....	21	Belmont st.....	coal dealer
MOREY, FRANK L.....	73	Sixth st.....	carpenter
MORIN, JOSEPH U.....	812	Merrimack st.....	butter dealer
MORIN, OVILA.....	158	Salem st.....	teamster
MORRIS, WILLIAM.....	165	Pleasant st.....	painter
MORRISEY, FRANK T.....	46	Albion st.....	janitor
MORRISON, JAMES F.....	46	Auburn st.....	barber
MORSE, EDWARD H.....	785	Broadway .....	livery stable
MORTON, ALBERT H.....	67	Canton st.....	superintendent
MOTLEY, GEORGE S.....	95	Nesmith st.....	gentleman
MOULTON, JAMES W.....	105	School st.....	clerk
MULDOON, OWEN.....	33	Marginal st.....	laborer
MULDOON, THOMAS.....	427	Lincoln st.....	piper
MUNN, FRANCIS D., JR.....	151	Methuen st.....	grocer
MURKLAND, JAMES.....	313	High st.....	foreman
MURKLAND, WALTER E.....	313	High st.....	clerk
MURNINGHAM, JOHN.....	47	Chapel st.....	merchant
MURPHY, FRANK B.....	348	Wilder st.....	real estate
MURPHY, JAMES A.....	82	Hanks st.....	overseer
MURPHY, JEREMIAH F.....	133	Mt. Hope st.....	clerk
MURPHY, JOHN D.....	138	Cross st.....	operative
MURPHY, JOSEPH F.....	7	Bleachery st.....	laborer
MURRAY, FRANK.....	86	Fourth av.....	operative
MURPHY, MATTHEW.....	280	East Merrimack st.....	carpenter
MYERS, WILLIAM.....	12	Barrington st.....	overseer

## N

NASH, MORRIS M.....	21	Loring st.....	mechanic
NAY, HOMER B.....	382	Werthen st.....	engineer
NEALE, ELISHA J.....	327	Beacon st.....	merchant

## N

NESMITH, JOSEPH A.....	229 Andover st.....	gentleman
NESTOR, PATRICK F.....	168 Howard st.....	janitor
NEWHALL, HENRY L.....	225 Mammoth road.....	paymaster
NICHOLS, ELIJAH M.....	23 Hamilton corp.....	boarding house
NICHOLS, FRANK C.....	800 Broadway.....	foreman
NICHOLS, GEORGE.....	65 Falmouth st.....	printer
NOBLE, JOHN T.....	197 Moore st.....	second hand
NOLAN, JOHN.....	844 Central st.....	dealer
NORCOTT, WILLIAM W.....	811 Westford st.....	superintendent
NORCROSS, NICHOLAS G.....	69 Huntington st.....	insurance agent
NOYES, HARRY K.....	37 Marlborough st....	commission dealer
NUTTALL, GEORGE W.....	305 Summer st.....	clerk

## O

O'BRIEN, JOHN.....	32 Whipple st.....	blacksmith
O'BRIEN, JOHN J.....	111 High st.....	wool sorter
O'BRIEN, JOHN J.....	399 Worthen st.....	second hand
O'BRIEN, PATRICK.....	3 Marion st.....	laborer
O'CONNELL, JOHN J.....	61 Newhall st.....	liquor dealer
O'CONNOR, MAURICE J.....	635 Market st.....	conductor
O'CONNOR, MICHAEL J.....	900 Gorham st.....	stone cutter
OGDEN, JOHN T.....	4 Olive st.....	second hand
O'HARE, FRANK.....	25 Bassett st.....	laborer
O'HARE, JAMES.....	159 Chapel st.....	teamster
O'HARE, JOHN P.....	167 Warren ct.....	weaver
O'HARE, STEPHEN.....	836 Central st.....	clerk
O'HEARN, PATRICK.....	282 Riverside st.....	contractor
O'HEIR, OCTAVIEN G.....	68 Lane st.....	merchant
OLIVER, JOHN.....	330 Pawtucket st.....	florist
O'MEARA, MARTIN.....	55 Cedar st.....	dealer
O'NEIL, JOHN H.....	241 Appleton st.....	tinsmith
ORT, JOHN J.....	18 Broadway .....	blacksmith
O'SHEA, MICHAEL.....	217 Concord st.....	machinist



# LIST OF JURORS.

29

## O

OSTERHOUT, FRED S.....	159	Middlesex st.....	livery
O'SULLIVAN, HUMPHREY.....	105	Butterfield st.....	shoe dealer
O'SULLIVAN, JAMES.....	105	Mt. Washington st.....	shoe dealer
OWEN, GEORGE E.....	221	High st.....	accountant

## P

PAGE, HORACE C.....	410	Westford st.....	clerk
PAIGE, CHARLES D.....	45	Thirteenth st.....	clerk
PALM, NELSON.....	25	Fay st.....	gardener
PALMER, CHARLES D.....	129	Fairmount st.....	gentleman
PALMER, SAMUEL B.....	394	Beacon st.....	grocer
PAQUETTE, JOSEPH A.....	50	Grove st.....	barber
PARADIS, ROBERT C.....	15	Durant st.....	reporter
PARENT, J. GEDEON.....	406	Moody st.....	hair dresser
PARK, ALBERT S.....	22	Wannalancit st.....	clerk
PARKER, ARTHUR W.....	306	Pine st.....	builder
PARKER, CHARLES A.....	13	Second st.....	painter
PARKER, PERCY.....	880	Broadway .....	real estate
PARKER, STANLEY M.....	712	School st.....	clerk
PARKER, WALTER L.....	270	Wilder st.....	manufacturer
PARKIN, PRESCOTT R.....	596	Beacon st.....	clerk
PARKIN, WALLACE G.....	614	Westford st.....	clerk
PARSONS, GEORGE F.....	158	Hale st.....	printer
PARTHENAIS, CHARLES H.....		Merrimac House.....	merchant
PARTHENAIS, WILLIAM A.....	16	Grand st.....	dealer
PATTEE, ARTHUR M.....	41	Nichols st.....	railroad
PEABODY, FRANK B.....	23	Columbus av.....	clerk
PEABODY, MORTON N.....	44	Mt. Vernon st.....	merchant
PEABODY, WILLIAM W.....	192	Wilder st.....	civil engineer
PEARSON, FRED H.....	725	Bridge st.....	boots and shoes
PEARSON, HARRIS C.....	19	Seventh av.....	baker
PELLETIER, EPHREM.....	796	Merrimack st.....	dry goods
PELTIER, MERIL.....	130	Avon st.....	confectioner
PENDERGAST, JOHN H.....	95	Dummer st.....	stone cutter



## P

PENN, CHARLES A.....	227	West London st.....	carpenter
PEPIN, WILLIAM H.....	540	Merrimack st.....	dentist
PEPPARD, PATRICK S.....	43	Blossom st.....	loom fixer
PERHAM, HAVEN C.....	19	Wannalancit st.....	agent
PERRON, JOSEPH.....	470	Moody st.....	hairstresser
PERSON, NILS.....	82	London st.....	carpenter
PERSONS, ALBERT C.....	629	Westford st.....	roll coverer
PEVEY, FRANKLIN S.....	68	Dover st.....	iron founder
PEVEY, JAMES A.....	366	Walker st.....	iron founder
PICKERING, ARTHUR R.....	81	Branch st.....	machinist
PIERCE, ABNER K.....	419	Chelmsford st.....	painter
PIHL, CARL G. A. F. W. E.....	45	Fay st.....	engineer
PILLING, HERBERT.....	44	Harvard st.....	shoe manufacturer
PILLING, JOHN B.....	1199	Middlesex st.....	shoe manufacturer
PILLSBURY, LAWRENCE J.....	606	Stevens st.....	painter
PINAULT, EDMUND J.....	13	Schafer st.....	carriage painter
PINAULT, ZEPHRIN R.....	97	Whitney av.....	salesman
PINDAR, JOHN J.....	159	Broadway .....	operative
PINDER, ALBERT L.....	64	Chapel st.....	carpenter
PINGREE, HERBERT W.....	10	Varnum av.....	carpenter
POLLARD, ARTHUR G.....	110	Mansur st.....	merchant
POLLARD, HARRY G.....	110	Mansur st.....	merchant
POORE, FRANK A.....	22	Walnut st.....	machinist
POTTER, WILLIAM H.....	290	Pine st.....	clerk
POWERS, JOHN.....	169	Broadway .....	laborer
POWERS, JOHN T.....	52	Claire st.....	hair dresser
PRATT, CHARLES H.....	19	Perrin st.....	Gas Co.
PRATT, DWIGHT M.....	96	Grove st.....	laborer
PRESCOTT, DUDLEY M.....	23	Oak st.....	plasterer
PRESTON, JAMES F.....	73	Nesmith st.....	manager
PRINCE, ARTHUR D.....	5	Simpson st.....	news dealer
PRINCE, GEORGE C.....	5	Simpson st.....	picture framer
PROCTOR, FRED W.....	57	Walker st.....	job express

# LIST OF JURORS.

31

## P

PUCCELL, JOSEPH A.....	123 Lakeview av.....	machinist
PUFFER, FRED A. A.....	62 Highland st.....	dealer
PUFFER, FREEMAN W.....	22 Burtt st.....	confectioner
PUFFER, JAMES F.....	18 May st.....	furniture dealer
PUFFER, STEPHEN B.....	942 Middlesex st.....	manufacturer
PURCELL, WILLIAM C.....	81 Sherman st.....	clerk
PUTNAM, ADDISON, JR.....	194 Nesmith st.....	merchant
PUTNAM, FRANK E.....	1210 Middlesex st.....	restaurant
PUTNAM, FRANK H.....	215 Stevens st.....	clerk

## Q

QUILL, FRANK, JR.....	137 Congress st.....	laborer
QUINN, JOHN J.....	433 Worthen st.....	operative
QUINN, MICHAEL.....	14 Fort Hill av.....	woolen weaver
QUINN, THOMAS F.....	151 High st.....	operative
QUINN, THOMAS F.....	511 Lawrence st.....	steam fitter
QUIRBACH, HENRY.....	134 Gorham st.....	merchant
QUIRK, WILLIAM.....	185 Adams st.....	operative

## R

RAFFERTY, MICHAEL T.....	36 Cedar st.....	hackman
RAMSDELL, DANIEL W.....	94 D st.....	teamster
RAND, GEORGE W.....	91 Willie st.....	salesman
RANDLETT, FRED M.....	8 Gates st.....	fish dealer
RANLETT, ORIN B.....	353 Wilder st.....	clerk
RAYMOND, CLARENCE H.....	N. S. Westford st.....	clerk
RAYMOND, JOHN B.....	543 Fletcher st.....	baker
READ, WILLIAM A.....	228 Liberty st.....	salesman
REARDON, PATRICK.....	rear 95 Dummer st.....	fireman
REDDING, DANIEL.....	45 Adams st.....	jobbing
REDMOND, EDWARD L.....	37-3 Bartlett st.....	clerk
REDMOND, JAMES J.....	37-3 Bartlett st.....	loomfixer
REED, FRANK T.....	1096 Bridge st.....	fireman

## R

REIDY, MARTIN H.....	9 Phillips st.....	manager
REILLY, JOHN J.....	130 Coburn st.....	weaver
RENAUD, SAMUEL, JR.....	602 Middlesex st.....	dealer
RENWICK, WALTER.....	208 Middlesex st.....	dyer
REYNOLDS, BERNARD.....	184 Fourth av.....	barber
RICE, HARRY R.....	134 Liberty st.....	manager
RICE, WALTER.....	109 Liberty st.....	overseer
RICHARDS, LOUIS E.....	794 Merrimack st.....	cartridge factory
RICHARDS, LYMAN H.....	3 Ward pl., Fletcher st.....	carpenter
RICHARDS, ULYSSES S.....	691 Merrimack st.....	veterinary surgeon
RICHARDSON, ALBERT J.....	161 Hildreth st.....	shuttle maker
RICHARDSON, EDWARD J.....	40 Lincoln st.....	clerk
RICHARDSON, HARRY T. B.....	65 Fort Hill av.....	baker
RICHARDSON, HENRI E.....	1460 Middlesex st.....	clerk
RICHARDSON, JOHN H.....	16 Webster av.....	grinder
RICHARDSON, WILLIAM W.....	7 Willie st.....	grocer
RILEY, JOHN.....	110 Lewis st.....	laborer
RILEY, PHILIP, JR.....	124 High st.....	upholsterer
RIORDAN, JOHN H.....	136 Fort Hill av.....	insurance
RIORDAN, PATRICK H.....	58 Second av.....	machinist
ROARK, ANDREW F.....	455 Market st.....	blacksmith
ROARK, JOHN J.....	28 Lyon st.....	clerk
ROARK, MILES H.....	28 Lyon st.....	insurance agent
ROBBINS, HERBERT E.....	62 Twelfth st.....	clerk
ROBINSON, ALFRED A.....	276 Pine st.....	provisions
ROBINSON, JAMES P.....	101 Blossom st.....	moulder
ROCHE, GEORGE B.....	12 Cady st.....	plumber
RODLIFF, FERDINAND.....	125 Nesmith st.....	real estate
ROGERS, JOHN F.....	29 Cedar st.....	undertaker
ROLLINS, WINSTON I.....	33 Fourth st.....	dealer
ROPER, GEORGE A.....	335 Walker st.....	clerk
ROUNTREE, ALEXANDER E.....	147 Pleasant st.....	clerk
ROUSSEAU, DONAT.....	195 Salem st.....	shoemaker

# LIST OF JURORS.

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## R

ROUSSIN, EUGENE.....	3	Salem st.....	editor
ROWLANDSON, WILLIAM E.....	203	Pleasant st.....	dyer
ROY, JOSEPH G.....	10	Dane st.....	operative
ROY, LAURENT R.....	10	Dane st.....	plumber
RUNELS, CHARLES.....	321	Thorndike st.....	contractor
RUNELS, GEORGE H.....	133	Princeton st.....	clerk
RUSHWORTH, CHARLES B.....	58	South Loring st.....	agent
RUSSELL, ALONZO L.....	12	Coral st.....	agent
RUSSELL, ASA C.....	331	Wilder st .....	manufacturer
RUSSELL, CYRUS W.....	115	Mt. Vernon st .....	grocer
RUSSELL, EUGENE G .....	226	Gibson st.....	real estate
RYAN, ALBERT J.....	384	High st.....	real estate
RYAN, JEREMIAH .....	779	Westford st .....	tinsmith
RYAN, JOHN .....	789	Westford st .....	brass founder
RYAN, PATRICK H.....	11	Burt st .....	brass founder

## S

SADLIER, JOHN A.....	171	Chapel st .....	laborer
SALMON, EDWARD A.....	186	School st .....	overseer
SANBORN, EDWARD P.....	79	Royal st .....	builder
SANBORN, FRED W.....	44	Fred st .....	carpenter
SANBORN, WALTER E .....	79	Royal st .....	clerk
SARGENT, GEORGE A.....	322	Salem st .....	operative
SAUNDERS, ARTHUR W.....	94	Twelfth st .....	manufacturer
SAUNDERS, FRANCIS E.....	119	Middlesex st .....	overseer
SAUNDERS, ORLANDO .....	87	Nesmith st .....	agent
SAUNDERS, THOMAS A.....	91	Tremont st .....	mason
SAVAGE, PETER H.....	850	Central st .....	undertaker
SAWYER, ORRIN A.....	761	Broadway .....	inventor
SAWYER, WESLEY.....	222	Lincoln st.....	physician
SCANNELL, BARTHOLOMEW....	535	Westford st .....	boiler maker
SCANNELL, CORNELIUS .....	62	Cambridge st .....	boiler maker
SCOTT, FRANK .....	54	Hampshire st.....	overseer

## S

SCOTT, JAMES .....	172	School st .....	gentleman
SCOTT, SAMUEL .....	30	Cabot st .....	dealer
SCRIBNER, GEORGE A.....	158	Westford st.....	machinist
SEETON, ROBERT B.....	30	Third av.....	brass worker
SEETER, WILLIAM F.....	238	Cabot st.....	overseer
SHANNESSY, GEORGE W.....	147	Howard st.....	wheelwright
SHAW, FRANCIS E.....	698	Westford st.....	gentleman
SHAW, RALPH H.....	225	Liberty st.....	clerk
SHAWNESSEY, MARTIN J.....	27-28	Robeson st.....	laborer
SHEA, EUGENE A.....	69	D st.....	plumber
SHEA, JAMES A.....	28	Butler av.....	plasterer
SHEA, JOHN E.....	28	Butler av.....	currier
SHEDD, FREEMAN B.....	396	Andover st.....	manufacturer
SHEEHY, JAMES.....	66	Andover st.....	dealer
SHEPHERD, ROBERT J.....	350	Concord st.....	B. & M. R. R.
SHERBURNE, JOHN W.....	55	Marlborough st.....	druggist
SHERMAN, ARTHUR W.....	339	Westford st.....	clerk
SHERMAN, EDWARD S.....	59	Huntington st.....	clerk
SHERMAN, LEONARD F.....	148	Princeton st.....	manufacturer
SHERWELL, WILLIAM M.....	2	Barton av.....	superintendent
SHERWOOD, EDWARD L.....	11	Columbus av.....	overseer
SHERWOOD, FRANK J.....	79	Vernon st.....	glue manufacturer
SILVER, FRED W.....	94	South Loring st.....	machinist
SIMMONS, RALPH A.....	746	Broadway .....	clerk
SIMONDS, FRANK J.....	170	Pleasant st.....	editor
SIMPSON, JOHN A.....	67	Methuen st.....	contractor
SLATER, JOSEPH F.....	611	Wilder st.....	gentleman
SMART, CHARLES E.....	104	D st.....	grocer
SMITH, CHARLES P.....	314	Nesmith st.....	gentleman
SMITH, CHESTER F.....	270	Gibson st.....	salesman
SMITH, DAVID W.....	139	Third st.....	machinist
SMITH, EDWARD P.....	250	High st.....	belt maker
SMITH, ETHAN A.....	84	Marlborough st.....	real estate

# LIST OF JURORS.

35

## S

SMITH, FREDERICK A.....	13	Kinsman st.....	laborer
SMITH, HENRY .....	261	Fayette st.....	barber
SMITH, JAMES.....	40	Barclay st.....	stone mason
SMITH, LORENZO E.....	122	Mammoth road.....	bookkeeper
SNOW, SAMUEL E.....	89	School st.....	mason
SOPER, MELVIN L.....	25	Burlington av.....	hair dresser
SOUTHAM, BROOK.....	627	Chelmsford st.....	shipper
SOUTHWORTH, WILLIAM S.....	63	Kirk st .....	mill agent
SPALDING, WILLIAM B.....	1	Center st .....	real estate
SPALDING, WILLIAM H.....	86	Thorndike st .....	merchant
SPEAR, FREDERICK A.....	576	Westford st .....	agent
SPICER, FRANK M.....	85	Royal st .....	electric railway
SPIERS, JAMES A.....	23	Phillips st .....	pattern maker
SPROAT, FRANK E.....	57	Claire st .....	operative
STACEY, DUANE P.....	75	Beacon st .....	clerk
STACK, FRANK P.....	185	Jewett st.....	painter
STAFFORD, EBEN B .....	301	Mammoth road .....	merchant
STANTON, JOHN B.....	23	Newhall st.....	wool sorter
STAPLES, ARTHUR .....	55	Franklin st .....	contractor
STAPLES, GEORGE N.....	61	Puffer st .....	clerk
STEPHENS, SAMUEL G.....	47	South Walker st.....	draughtsman
STERNBERG, ISRAEL H.....	142	West Sixth st.....	claim agent
STEVENS, ALBERT W .....	25	Perrin st .....	mason
STEVENS, ALMON C.....	43	Hildreth st.....	sexton
STEVENS, C. BROOKS.....	S. S.	Andover st .....	treasurer
STEWART, JOHN W.....	45	Thirteenth st .....	plumber
STICKNEY, FREDERICK W.....	53	Third st.....	architect
STILES, ALBA G.....	72	Varney st .....	retired
STIMPSON, WALTER W.....	441	Dutton st .....	machinist
ST. JEAN, GILLAUME.....	115	Aiken st.....	clerk
ST. JOHN, CHARLES H.....	122	First st .....	clerk
STOCKS, HARRY .....	141	Parkview av .....	bookkeeper
STOPHERD, ALBERT .....	29	Bassett st .....	second hand



## S

STOREY, JOHN A.....	684	Westford st .....	dry goods
STOTT, CHARLES A.....	173	Nesmith st .....	manufacturer
STOTT, CHARLES W.....	173	Nesmith st .....	manufacturer
STOTT, JOHN W.....	36	Marlborough st .....	accountant
STOTT, THOMAS .....	282	Pawtucket st .....	manufacturer
STOUGHTON, WILLIS H.....	162	Powell st .....	job express
STOWELL, CHARLES H.....	99	Fairmount st .....	J. C. Ayer Co.
STOWELL, FRANK E.....	179	Foster st .....	undertaker
STRATTON, TORREY E.....	167	Stevens st .....	janitor
STURTEVANT, CHARLES S.....	532	Westford st .....	musician
SULLIVAN, CORNELIUS F.....	113	Pleasant st.....	barber
SULLIVAN, DANIEL T.....	223	Stackpole st.....	dealer
SULLIVAN, DENNIS A.....	578	Market st.....	piper
SULLIVAN, DENNIS A.....	164	Wentworth av.....	editor
SULLIVAN, FRANK J.....	45	Wamesit st.....	clerk
SULLIVAN, JAMES F.....	318	Adams st.....	laborer
SULLIVAN, JOHN J.....	171	Chapel st.....	painter
SULLIVAN, JOHN J.....	96	Lewis st.....	pharmacist
SULLIVAN, JOHN J.....	181	Mt. Vernon st.....	merchant
SULLIVAN, MARTIN W.....	16	Lagrange st.....	carpenter
SULLIVAN, MICHAEL ..	180	Broadway .....	operative
SULLIVAN, MICHAEL E.....	330	Concord st.....	barber
SUTCLIFFE, WILLIAM T.....	31	Runels pl.....	music teacher
SWAN, ALBERT J.....	23	Congress st.....	clerk
SWAN, DANIEL A .....	486	East Merrimack st.....	merchant
SWEATT, ALBION .....	62	Eighteenth st.....	carpenter
SWEATT, ELLSWORTH E.....	432	Hildreth st.....	carpenter
SWEENEY, JOSEPH V.....	8	Carter st.....	merchant
SYKES, LOUIS B.....	74	London st.....	clerk

## T

TAFT, HERBERT O.....	1	Barton av.....	clerk
TAFF, RICHARD .....	34	Broadway .....	manufacturer

## T

TAMSEY, JOHN.....	30	Pleasant st.....	coachman
TAYLOR, FRANK B.....	318	Central st.....	mason
TAYLOR, GEORGE A.....	337	High st.....	caterer
TAYLOR, GEORGE C.....	166	Fairmount st.....	merchant
TAYLOR, GEORGE H.....	29	Twelfth st.....	C. I. Hood & Co.
TAYLOR, GEORGE H.....	41	Nichols st.....	stable keeper
TAYLOR, LUKE B.....	8	Wachusett st.....	weaver
TAYLOR, MARK D.....	24	West Third st.....	machinist
TEEL, GEORGE M.....	147	Warwick st.....	clerk
THISSELL, OVA N.....	83	Midland st.....	driver
THOMPSON, HENRY M.....	298	Pawtucket st.....	manufacturer
THOMPSON, JOHN .....	rear 357	Central st.....	dyer
THOMPSON, WILLIAM M.....	3	Bachelor pl.....	ice man
THORNE, JOHN, JR.....	20	Fernald st.....	clerk
THORNTON, JOSEPH B.....	134	Gorham st.....	laborer
TIGHE, FREDERICK F.....	72	South st.....	clerk
TIGHE, JOHN .....	190	Tilden st.....	operative
TILTON, CHARLES E.....	57	South Walker st.....	compositor
TILTON, FREDERICK N.....	57	South Walker st.....	printer
TIMMONS, FREDERICK J.....	511	School st.....	clerk
TITUS, AFTON G.....	448	Stevens st.....	checker B. & M. R. R.
TRAVERSY, A. ELZEARE.....	746	Broadway st.....	clerk
TREPANIER, J. EDMUND.....	11	Willie av.....	helper
TRUE, MITCHELL C.....	606	Westford st.....	clerk
TUMELTY, CHARLES F.....	18	Burns st.....	clerk
TURCOTTE, HOMER L. P.....	169	Salem st.....	janitor
TURCOTTE, ISIDORE.....	32	Mammoth road.....	bookkeeper
TURCOTTE, LUCIEN F. L.....	22	Riverside st.....	clerk
TURGEON, LOUIS G.....	386	Fletcher st.....	druggist
TURNER, CLARKSON H.....	18	Bryant st.....	Gas Co.
TURNER, JOHN D.....	42	Columbus av.....	machinist
TYRRELL, JOHN E.....	483	Lawrence st.....	dealer



## LIST OF JURORS.

## U

UNDERWOOD, GEORGE H..... 64 South Whipple st.....spinner  
 URANN, CHARLES F.....408 Lincoln st.....foreman

## V

VARNEY, EDWARD S..... 20 Ash st.....printer  
 VARNUM, ALGERNON B.....190 Wilder st.....clerk  
 VARNUM, LEAVITT R. J..... Merrimack House.....real estate  
 VARNUM, LEAVITT R. J., JR.....697 Bridge st.....real estate  
 VAUGHN, PATRICK P..... 14 Leverett st.....plumber  
 VIGEANT, PAUL..... 20 Dodge st.....hay and grain  
 VIGEANT, FREMONT J.....105 Merrimack st.....clerk  
 VIGEANT, TIMOTHEE.....789 Moody st.....grocer  
 VIGNEAULT, EDMUND J.....476 Moody st.....clerk  
 VINCELETTE, EDOUARD..... 55 White st.....musician  
 VINCENT, JOHN..... 94 Ford st.....provisions  
 VINEY, WILLIAM B..... 22 Tyler st.....clerk  
 VINING, ALONZO H..... 27 Eighth av.....carpenter  
 VINING, HIRAM..... 36 Fourth av.....carpenter

## W

WADLEIGH, JUDE C.....139 Hildreth st.....superintendent  
 WAHLGREN, CARL A.....134 Gorham st.....cigar maker  
 WALCH, ARTHUR E..... 16 Columbus av.....drug clerk  
 WALCH, OSCAR N..... 26 West Sixth st.....upholsterer  
 WALSH, JAMES P.....164 Coburn st.....plasterer  
 WALKER, ROGER L..... 80 Chestnut st.....electrician  
 WALKER, THOMAS C..... 80 Chestnut st.....druggist  
 WALLACE, TIMOTHY J..... 13 Richmond av.....laborer  
 WALSH, JOHN F..... 5 Watson st.....operative  
 WALSH, THOMAS .....104 Eleventh st.....superintendent  
 WALSH, THOMAS F.....282 Salem st.....pressman  
 WALSH, WILLIAM H..... 86 Congress st.....dyer  
 WARREN, CHARLES H..... 25 Princeton st.....dealer

## W

WARREN, JEREMIAH F.....	27	Cross st.....	painter
WARREN, OSCAR E.....	284	Worthen st.....	operative
WASHBURN, CHARLES D.....	84	West Sixth st.....	grocer
WASHBURN, GEORGE B.....	179	Humphrey st.....	reporter
WATERWORTH, CHARLES R....	78	Otis st.....	tool maker
WATSON, GEORGE B.....	30	First st.....	clerk
WEAVER, FRANK L.....	229	Stevens st.....	roofer
WEBSTER, HERBERT E.....	251	Foster st.....	salesman
WELCH, PATRICK F.....	537	Lawrence st.....	steam fitter
WELCH, RICHARD.....	52	Bowden st.....	tailor
WELCH, WILLIAM F.....	34	Cedar st.....	carpenter
WESTWOOD, JOHN S.....	10	Simpson pl.....	druggist
WHALEN, CHARLES B.....	20	Hudson st.....	tanner
WHEELER, ALBERT H.....	710	Merrimack st.....	merchant
WHEELER, DANIEL C.....	725	Bridge st.....	shuttle maker
WHEELER, RALPH L.....	43	Varney st.....	merchant
WHELTON, MATTHEW.....	283	School st.....	clerk
WHITCOMB, IRVING.....	48	South Walker st.....	dealer
WHITE, HENRY G.....	131	Grove st.....	clerk
WHITE, HERBERT R.....	80	Livingston av.....	salesman
WHITE, WILLIAM T.....	66	Huntington st.....	manufacturer
WHITNEY, FRED H.....	596	Beacon st.....	bookkeeper
WHITTET, CHARLES A.....	217	Moore st.....	florist
WHITTIER, JOHN K.....	76	Bellevue st.....	assistant superintendent
WHITTIER, STEPHEN T.....	17	Davenport st.....	paymaster
WIGGIN, BURTON H.....	65	Harvard st.....	contractor
WIGGIN, FRANK B.....	28	Bellevue st.....	bookkeeper
WIGHT, GEORGE H.....	93	Durant st.....	piper
WILDER, CHARLES W.....	291	Wilder st.....	dealer
WILDER, OLIVER D.....	6	Coral st.....	grain dealer
WILDER, WESLEY M.....	6	Coral st.....	clerk
WILDER, WILLIAM F.....	20	Huntington st.....	merchant
WILEY, WALTER P.....	255	Liberty st.....	water works

## LIST OF JURORS.

### W

WILLIAMS, JAMES B.....	159	Merrimack st.....	painter
WILLIAMS, JAMES H.....	78	Rock st.....	operative
WILLIS, WILLIAM T.....	307	Thorndike st.....	stone mason
WILLMAN, DAVID, JR.....	8	Hale st.....	wool sorter
WILSON, JOSEPH M.....	22	Seventh av.....	butcher
WING, CHARLES T.....	92	Stevens st.....	designer
WINN, JOHN J.....	29	South Whipple st.....	mattress maker
WIRT, EDWARD R.....	163	Andover st.....	upholsterer
WOOD, EDWARD N.....	43	Wannalancit st.....	grain dealer
WOOD, GEORGE H.....	176	Branch st.....	jeweler
WOOD, MILLARD F.....	51	Whitney av.....	jeweler
WOODIES, WILLIAM H.....	381	Dutton st.....	overseer
WOODSIDE, WILLIAM E.....	37	Laurel st.....	photographer
WOODWORTH, HENRY P.....	14	Oakland st.....	lumber dealer
WOTTON, CHARLES A.....	26	Loring st.....	laundryman
WRAGG, THOMAS.....	13	Methuen st.....	overseer
WRIGHT, FRANK B.....	57	Willow st.....	carpenter
WRIGHT, HERBERT A.....	27	Warwick st.....	clerk
WRIGHT, WALTER G.....	27	Osgood st.....	machinist
WYMAN, MOSES.....	62	Middlesex st.....	lodging house
WYMAN, RANDALL T.....	169	Middlesex st.....	boarding house

### Y

YETTER, WILLIAM.....	16	Cabot st.....	clerk
YORKE, JOSEPH B.....	13	Oakland st.....	pressman
YOUNG, JAMES A.....	585	Broadway .....	motorman

















